### SEQUENCE LISTING

	ON:	INFORMA	GENERAL	(1)
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- (i) APPLICANTS: Xu, Jiangchun Dillon, Davin C.
- (ii) TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF PROSTATE CANCER AND METHODS FOR THEIR USE
  - (iii) NUMBER OF SEQUENCES: 224
  - (iv) CORRESPONDENCE ADDRESS:
    - (A) ADDRESSEE: SEED and BERRY LLP
    - (B) STREET: 6300 Columbia Center, 701 Fifth Avenue
    - (C) CITY: Seattle
    - (D) STATE: WA
    - (E) COUNTRY: USA
    - (F) ZIP: 98104
    - (v) COMPUTER READABLE FORM:
      - (A) MEDIUM TYPE: Floppy disk
      - (B) COMPUTER: IBM PC compatible
      - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
      - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
  - (vi) CURRENT APPLICATION DATA:
    - (A) APPLICATION NUMBER:
    - (B) FILING DATE: 23-FEB-1998
    - (C) CLASSIFICATION:
  - (viii) ATTORNEY/AGENT INFORMATION:
    - (A) NAME: Maki, David J.
    - (B) REGISTRATION NUMBER: 31,392
    - (C) REFERENCE/DOCKET NUMBER: 210121.428C3
    - (ix) TELECOMMUNICATION INFORMATION:
      - (A) TELEPHONE: (206) 622-4900
      - (B) TELEFAX: (206) 682-6031
- (2) INFORMATION FOR SEQ ID NO:1:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 814 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

TTTTTTTTT	TTTTTCACAG	TATAACAGCT	CTTTATTTCT	GTGAGTTCTA	CTAGGAAATC	60
					GAATCAGCTT	120
					AAGACCCTCC	180
					TGGGTTATGT	240

TTTCAGCTCC	ATCCTTGCTG	TGAGTGTCTG	GTGCGTTGTG	CCTCCAGCTT	CTGCTCAGTG	300
CTTCATGGAC	AGTGTCCAGC	ACATGTCACT	CTCCACTCTC	TCAGTGTGGA	TCCACTAGTT	360
CTAGAGCGGC	CGCCACCGCG	GTGGAGCTCC	AGCTTTTGTT	CCCTTTAGTG	AGGGTTAATT	420
GCGCGCTTGG	CGTAATCATG	GTCATAACTG	TTTCCTGTGT	GAAATTGTTA	TCCGCTCACA	480
ATTCCACACA	ACATACGAGC	CGGAAGCATA	AAGTGTAAAG	CCTGGGGTGC	CTAATGAGTG	540
ANCTAACTCA	CATTAATTGC	GTTGCGCTCA	CTGNCCGCTT	TCCAGTCNGG	AAAACTGTCG	600
TGCCAGCTGC	ATTAATGAAT	CGGCCAACGC	NCGGGGAAAA	GCGGTTTGCG	TTTTGGGGGC	660
TCTTCCGCTT	CTCGCTCACT	NANTCCTGCG	CTCGGTCNTT	CGGCTGCGGG	GAACGGTATC	720
ACTCCTCAAA	GGNGGTATTA	CGGTTATCCN	NAAATCNGGG	GATACCCNGG	AAAAAANTTT	780
AACAAAAGGG	CANCAAAGGG	CNGAAACGTA	AAAA			814

### (2) INFORMATION FOR SEQ ID NO:2:

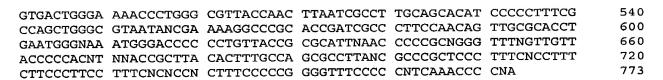
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 816 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

ACAGAAATGT	TGGATGGTGG	AGCACCTTTC	TATACGACTT	ACAGGACAGC	AGATGGGGAA	60
TTCATGGCTG	TTGGAGCAAT	AGAACCCCAG	TTCTACGAGC	TGCTGATCAA	AGGACTTGGA	120
CTAAAGTCTG	ATGAACTTCC	CAATCAGATG	AGCATGGATG	ATTGGCCAGA	AATGAAGAAG	180
AAGTTTGCAG	ATGTATTTGC	AAAGAAGACG	AAGGCAGAGT	GGTGTCAAAT	CTTTGACGGC	240
ACAGATGCCT	GTGTGACTCC	GGTTCTGACT	TTTGAGGAGG	TTGTTCATCA	TGATCACAAC	300
AAGGAACGGG	GCTCGTTTAT	CACCAGTGAG	GAGCAGGACG	TGAGCCCCCG	CCCTGCACCT	360
CTGCTGTTAA	ACACCCCAGC	CATCCCTTCT	TTCAAAAGGG	ATCCACTAGT	TCTAGAAGCG	420
GCCGCCACCG	CGGTGGAGCT	CCAGCTTTTG	TTCCCTTTAG	TGAGGGTTAA	TTGCGCGCTT	480
GGCGTAATCA	TGGTCATAGC	TGTTTCCTGT	GTGAAATTGT	TATCCGCTCA	CAATTCCCCC	540
AACATACGAG	CCGGAACATA	AAGTGTTAAG	CCTGGGGTGC	CTAATGANTG	AGCTAACTCN	600
CATTAATTGC	GTTGCGCTCA	CTGCCCGCTT	TCCAGTCGGG	AAAACTGTCG	TGCCACTGCN	660
TTANTGAATC	NGCCACCCCC	CGGGAAAAGG	CGGTTGCNTT	TTGGGCCTCT	TCCGCTTTCC	720
TCGCTCATTG	ATCCTNGCNC	CCGGTCTTCG	GCTGCGGNGA	ACGGTTCACT	CCTCAAAGGC	780
GGTNTNCCGG	TTATCCCCAA	ACNGGGGATA	CCCNGA			816

# (2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 773 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CTTTTGAAAG	AAGGGATGGC	TGGGGTGTTT	AACAGCAGAG	GTGCAGGGCG	GGGGCTCACG	60
TCCTGCTCCT	CACTGGTGAT	AAACGAGCCC	CGTTCCTTGT	TGTGATCATG	ATGAACAACC	120
TCCTCAAAAG	TCAGAACCGG	AGTCACACAG	GCATCTGTGC	CGTCAAAGAT	TTGACACCAC	180
TCTGCCTTCG	TCTTCTTTGC	AAATACATCT	GCAAACTTCT	TCTTCATTTC	TGGCCAATCA	240
				CANNTCCTTT		300
TCGTAGAACT	GGGGTTCTAT	TGCTCCAACA	GCCATGAATT	CCCCATCTGC	TGTCCTGTAA	360
GTCGTATAGA	AAGGTGCTCC	ACCATCCAAC	ATGTTCTGTC	CTCGAGGGGG	GGCCCGGTAC	420
CCAATTCGCC	CTATANTGAG	TCGTATTACG	CGCGCTCACT	GGCCGTCGTT	TTACAACGTC	480



### (2) INFORMATION FOR SEQ ID NO:4:

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 828 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

CCTCCTGAGT CCTACTGACC	TGTGCTTTCT	GGTGTGGAGT	CCAGGGCTGC	TAGGAAAAGG	60
AATGGGCAGA CACAGGTGTA			GTATAATTTC	GTCCTCTCCT	120
TCGGAACACT GGCTGTCTCT	GAAGACTTCT	CGCTCAGTTT	CAGTGAGGAC	ACACACAAAG	180
ACGTGGGTGA CCATGTTGTT	TGTGGGGTGC	AGAGATGGGA	GGGGTGGGGC	CCACCCTGGA	240
AGAGTGGACA GTGACACAAG	GTGGACACTC	TCTACAGATC	ACTGAGGATA	AGCTGGAGCC	300
ACAATGCATG AGGCACACAC	ACAGCAAGGA	TGACNCTGTA	AACATAGCCC	ACGCTGTCCT	360
GNGGGCACTG GGAAGCCTAN			AAGGGGAGGA	TCCACTAGTT	420
	GTGGANCTCC	ANCTTTTGTT	CCCTTTAGTG	AGGGTTAATT	480
GCGCGCTTGG CNTAATCATG	GTCATANCTN	TTTCCTGTGT	GAAATTGTTA	TCCGCTCACA	540
0000001100	CGGAAACATA	AANTGTAAAC	CTGGGGTGCC	TAATGANTGA	600
		GCCCGCTTTC	CAATCNGGAA	ACCTGTCTTG	660
CIMICION PROPERTY		GGGGAAAAGC	GTTTGCGTTT	TGGGCGCTCT	720
CCMCIICCMI INTICOMINE	<b>~~~~~~</b>	TCGGTCATTC	CGGCTGCNGC	AAACCGGTTC	780
		CCNAATCCGG	GGANANCC		828
ACCINCUICCA AAGGGGGTAI	1000011100	001211.0000			

## (2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 834 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

TTTTTTTTTT	TTTTTACTGA	TAGATGGAAT	TTATTAAGCT	TTTCACATGT	GATAGCACAT	60
AGTTTTAATT				ATCAAGAATG		120
ATTTTATAAC	AATCAACACC	TGTGGCTTTT	AAAATTTGGT	TTTCATAAGA	TAATTTATAC	180
				CACTCCAAGC		240
				AAATAACAAA		300
				GTTGAGTAAG		360
				${\tt TTTGATTCAC}$		420
САТТСАСТТТ	TCAAAGTAGG	AGACAGGTTC	TACAGTATCA	TTTTACAGTT	TCCAACACAT	480
TGAAAACAAG	TAGAAAATGA	TGAGTTGATT	TTTATTAATG	CATTACATCC	TCAAGAGTTA	540
TCACCAACCC	СТСДСТТДТА	AAAAATTTTC	AAGTTATATT	AGTCATATAA	CTTGGTGTGC	600
				AATGGTCCCC		660
				AGGCTTTTGA		720
				ACAGTGTGCT		780
IGNATIVAÇÃO	IGIICCAMAC	1111012100111				

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# TGTTATTTTG TTAAAAATTA AATTTTAACC TGGTGGAAAA ATAATTTGAA ATNA 834

- (2) INFORMATION FOR SEQ ID NO:6:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 818 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

TTTTTTTTT	TTTTTTTTT	AAGACCCTCA	TCAATAGATG	GAGACATACA	GAAATAGTCA	60
		AGTATCAGGC				120
	AATATTAGTT				AGCCAATAAT	180
GACGTGAAGT	CCGTGGAAGC	CTGTGGCTAC	AAAAAATGTT	GAGCCGTAGA	TGCCGTCGGA	240
		AGTACTCTGA				300
		CTTGAATTAT				360
GTGAGCTCAG		CTCCTGATGC				420
		TGATGCCTGT				480
		AAAAGGCTCA				540
		CGTATCGAAG				600
			CCATCATTGG	TATATGGTTA	GTGTGTTGGG	660
		GAACTTTTGG				720
		GGCCCTGTTA				780
GGAATNCNCC		NTGNATCCCT			-	818
COULTAINCHICE	~~~~~~~~~					

- (2) INFORMATION FOR SEQ ID NO:7:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 817 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

TTTTTTTTTT	TTTTTTTTT	TGGCTCTAGA	GGGGGTAGAG	GGGGTGCTAT	AGGGTAAATA	60
CGGGCCCTAT	TTCAAAGATT	TTTAGGGGAA	TTAATTCTAG	GACGATGGGT	ATGAAACTGT	120
	ACAGATTTCA	GAGCATTGAC	CGTAGTATAC	CCCCGGTCGT	GTAGCGGTGA	180
AAGTGGTTTG			CATCTGTTTT		GTGGGGACAG	240
		TGTGATGTAA	TTATTATACN	AATGGGGGCT	TCAATCGGGA	300
		TCAAGGAGTC				360
		ATTAATCCGC			GTTCAATACC	420
		ATTGGTAAGGG			TGTTATGTAA	480
					GCANGATATT	540
		AGGCNATNAA			TTTNGTTATT	600
TCAAACNGTC		GAAACGTCTG		AANAATTAAN		
GAATNTTNNG	GAAAAGGGCT	TACAGGACTA	GAAACCAAAT	ANGAAAANTA		660
CNTTATCNTN	AAAGGTNATA	ACCNCTCCTA	TNATCCCACC	CAATNGNATT	CCCCACNCNN	720
ACNATTGGAT	NCCCCANTTC	CANAAANGGC	CNCCCCCCGG	TGNANNCCNC	CTTTTGTTCC	780
CTTNANTGAN		CCCTNGCNTT				817
CITIMITOTAL						

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 799 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

CATTTCCGGG	TTTACTTTCT	AAGGAAAGCC	GAGCGGAAGC	TGCTAACGTG	GGAATCGGTG	60
	ACTTTCTGCT	GGCACGCGCT	AGGGACAAGC	GGGAGAGCGA	CTCCGAGCGT	120
	CGTCCCAGAA			AGCTGGGACA		180
•	GCCTGAAAGT			AGTGTAGCCG	CGTCCTGGGG	240
	ANGCCTGANC			ANGTGGGCCG	CCACCCCCTG	300
A COTTO COTTO	CTCCAAACAC			CAAGGANAAC	CCCCACANGG	360
<del>-</del>	CCTANANTAA		GGCCTCGGCC	CCCCCACCTG	GTTGGCCTTG	420
<b></b>						480
	GAGCCCCATG		000.0.	ANTCCCANCC		540
0.00	CCACANNATG					600
CAAGNCCTGN		NCTANAACCG	00021002100	NGTCCTNCNC		660
TCCTTTTCNT				CCCGACCCNN		720
GTTNAAATTG	TTANGCNCCC	NCCNNTCCCN				780
NCCTGGGGGT	NCCNNCNGAT	TGACCCNNCC	NCCCTNTANT	TGCNTTNGGG	MNCMMTGCCC	799
CTTTCCCTCT	NGGGANNCG					199

- (2) INFORMATION FOR SEQ ID NO:9:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 801 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

ACGCCTTGAT CCTCC	CCAGGC TGGGACTGG	TCTGGGAGGA	GCCGGGCATG	CTGTGGTTTG	60
ACOCCITOIL COLO	CCAAAG GTGGTCCTG			GGGCTCACCT	120
TIME TO THE TAXABLE PARTY	CAGGT GCGGGGGCC		GATCCTTACT	CTATGAGCAA	180
CIMICOLLO DE CI	GCTTCT CCTTGAAGT		GCTCAGTCTT	TGGACCCANG	240
	GTNGNC CAACTGGGG		AAANGGCNCA	GGGCCTCNGN	300
0.10010	511(51)		TCCACCACTT	TCATGCGCTG	360
CACCCATCCC ANGAC				NGGACGTGCG	420
110111110000	11.1010 00		CACGTNCCAN	CAACAAATTT	480
CTACATACGC CCGG	2,1201,0 1,121		NNCGNGCTTC	CTTNTAAAAG	540
CINCOLLIZATED TOTAL	NATTCC CACNTTINN			CCCCCTNATA	600
00110121000	AAATNC CCCAAAGGG		TTTAANNACN		660
GCTGAANTCC CCATI	NACCNN GNCTCNATG			CCCCCNNTCC	720
GGGAANANCC CTCGI	NCCNTN CCCCCNTTA				780
NCCCNNNTNG GCNT	NTNANN CNAAAAAGG	C CCNNNANCAA	TCTCCTNNCN	CCICANTICG	801
CCANCCCTCG AAAT	CGGCCN C				801

- (2) INFORMATION FOR SEQ ID NO:10:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 789 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

					macamamaaa	
CAGTCTATN	IT GGCCAGTGTG	GCAGCTTTCC	CTGTGGCTGC	CGGTGCCACA	TGCCTGTCCC	60
ACAGTGTGG	C CGTGGTGACA	GCTTCAGCCG	CCCTCACCGG	GTTCACCTTC	TCAGCCCTGC	120
	C CTACACACTG		ACCACCGGGA	GAAGCAGGTG	TTCCTGCCCA	180
	G GGACACTGGA			CCTGATGACC	AGCTTCCTGC	240
CAGGCCCTA		CCCTTCCCTA		GGGTGCTGGA	GGCAGTGGCC	300
				TGATGTCTCC		360
TGCTCCCAC	C TCCACCCGCG	CTCTGCGGGG	CCTCTGCCTG			
TGGTGGGTC	A GCCCACCGAN	GCCAGGGTGG	TTCCGGGCCG	GGGCATCTGC	CTGGACCTCG	420
CCATCCTGC	A TAGTGCTTCC	TGCTGTCCCA	NGTGGCCCCA	TCCCTGTTTA	TGGGCTCCAT	480
00	C AGCCAGTCTG		TATGGTGTCT	GCCGCAGGCC	TGGGTCTGGT	540
				ANTTGGCCAA	ATACTCAGCG	600
CCCATTTAC	TTGCTACACA			_		660
TTAAAAAAA	TT CCAGCAACAT	TGGGGGTGGA	AGGCCTGCCT	CACTGGGTCC	AACTCCCCGC	
TCCTGTTA	C CCCATGGGGC	TGCCGGCTTG	GCCGCCAATT	TCTGTTGCTG	CCAAANTNAT	720
100101			CAACTCCNTA	CNGCNCANCT	NGGGGGGTNG	780
GTGGCTCT	CT GCTGCCACCT	GIIGCIGGCI	GWYGIGCNIY	CHOCHOMOI		789
GGNGTTCC	3					769

- (2) INFORMATION FOR SEQ ID NO:11:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 772 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

ACTTTCATAT GTTCAAATCC CATGGAGGAG TGTTTCATCC TAGAAACTCC CATGCAAGAG CTACATTAAA CGAAGCTGCA GGTTAAGGGG CTTANAGATG GGAAACCAGG TGACTGAGTT TATTCAGCTC CCAAAAACCC TTCTCTAGGT GTGTCTCAAC TAGGAGGCTA GCTGTTAACC CTGAGCCTGG GTAATCCACC TGCAGAGTCC CCGCATTCCA GTGCATGGAA CCCTTCTGGC CTCCCTGTAT AAGTCCAGAC TGAAACCCCC TTGGAAGGNC TCCAGTCAGG CAGCCCTANA 540	ACCAACAGGC TGTGGGCTGA ACTTTCATAT CTACATTAAA TATTCAGCTC CTGAGCCTGG	CATAT GTTCAAATCC ATTAAA CGAAGCTGCA CAGCTC CCAAAAACCC GCCTGG GTAATCCACC	AATATTTAAA TAAAAGGTAA TTCTTGTGTG CATGGAGGAG GGTTAAGGGG TTCTCTAGGT TGCAGAGTCC	TGCCTGTGTC GAGGGGGGTG TTGCCCCTCA TGTTTCATCC CTTANAGATG GTGTCTCAAC CCGCATTCCA TTGGAAGGNC	TCTGTGATGG GATCAGCAAA GGACTCTTCC TAGAAACTCC GGAAACCAGG TAGGAGGCTA GTGCATGGAA TCCAGTCAGG	CCTACAAATA CATGCAAGAG TGACTGAGTT GCTGTTAACC CCCTTCTGGC CAGCCCTANA	120 180 240 300 360 420 480
ACTTTCATAT GTTCAAATCC CATGGAGGAG TGTTTCATCC TAGAAACTCC CATGGAGTT  CTACATTAAA CGAAGCTGCA GGTTAAGGGG CTTANAGATG GGAAACCAGG TGACTGAGTT  TATTCAGCTC CCAAAAACCC TTCTCTAGGT GTGTCTCAAC TAGGAGGCTA GCTGTTAACC  CTGAGCCTGG GTAATCCACC TGCAGAGTCC CCGCATTCCA GTGCATGGAA CCCTTCTGGC  CTCCCTGTAT AAGTCCAGAC TGAAACCCCC TTGGAAGGNC TCCAGTCAGG CAGCCCTANA  AACTGGGGAA AAAAGAAAAG GACGCCCCAN CCCCCAGCTG TGCANCTACG CACCTCAACA  GCACAGGGTG GCAGCAAAAA AACCACTTTA CTTTGGCACA AACAAAAACT NGGGGGGGCA  ACCCCGGCAC CCCNANGGGG GTTAACAGGA ANCNGGGNAA CNTGGAACCC AATTNAGGCA  720	CTACATTAAA TATTCAGCTC CTGAGCCTGG CTCCCTGTAT AACTGGGGAA GCACAGGGTG	ATTAAA CGAAGCTGCA CAGCTC CCAAAAACCC GCCTGG GTAATCCACC CTGTAT AAGTCCAGAC GGGGAA AAAAGAAAAG AGGGTG GCAGCAAAAA	GGTTAAGGGG TTCTCTAGGT TGCAGAGTCC TGAAACCCCC GACGCCCCAN AACCACTTTA	CTTANAGATG GTGTCTCAAC CCGCATTCCA TTGGAAGGNC CCCCCAGCTG CTTTGGCACA	GGAAACCAGG TAGGAGGCTA GTGCATGGAA TCCAGTCAGG TGCANCTACG AACAAAAACT CNTGGAACCC	TGACTGAGTT GCTGTTAACC CCCTTCTGGC CAGCCCTANA CACCTCAACA NGGGGGGGCA AATTNAGGCA	360 420 480

- (2) INFORMATION FOR SEQ ID NO:12:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 751 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

GCCCCAATTC	CAGCTGCCAC	ACCACCCACG	GTGACTGCAT	TAGTTCGGAT	GTCATACAAA	60
AGCTGATTGA	AGCAACCCTC	TACTTTTTGG	TCGTGAGCCT	TTTGCTTGGT	GCAGGTTTCA	120
TTGGCTGTGT	TGGTGACGTT	GTCATTGCAA	CAGAATGGGG	GAAAGGCACT	GTTCTCTTTG	180
AAGTANGGTG	AGTCCTCAAA	ATCCGTATAG	TTGGTGAAGC	CACAGCACTT	GAGCCCTTTC	240
ATGGTGGTGT	TCCACACTTG	AGTGAAGTCT	TCCTGGGAAC	CATAATCTTT	CTTGATGGCA	300
GGCACTACCA	GCAACGTCAG	GGAAGTGCTC	AGCCATTGTG	GTGTACACCA	AGGCGACCAC	360
AGCAGCTGCN	ACCTCAGCAA	TGAAGATGAN	GAGGANGATG	AAGAAGAACG	TCNCGAGGGC	420
ACACTTGCTC	TCAGTCTTAN	CACCATANCA	GCCCNTGAAA	ACCAANANCA	AAGACCACNA	480
CNCCGGCTGC	GATGAAGAAA	TNACCCCNCG	TTGACAAACT	TGCATGGCAC	TGGGANCCAC	540
AGTGGCCCNA	AAAATCTTCA	AAAAGGATGC	CCCATCNATT	GACCCCCCAA	ATGCCCACTG	600
CCAACAGGGG	CTGCCCCACN	CNCNNAACGA	TGANCCNATT	GNACAAGATC	TNCNTGGTCT	660
TNATNAACNT	GAACCCTGCN	TNGTGGCTCC	TGTTCAGGNC	CNNGGCCTGA	CTTCTNAANN	720
AANGAACTCN	GAAGNCCCCA	CNGGANANNC	G ·			751

## (2) INFORMATION FOR SEQ ID NO:13:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 729 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

~~ ~~~~~~~	maaamamaaa	madada amas	CTCCCAACAC	CCGGGAGCTG	ттттстсстт	60
GAGCCAGGCG	Tecererece					
TGTGGANCCT	CAGCAGTNCC	CTCTTTCAGA	ACTCANTGCC	AAGANCCCTG	AACAGGAGCC	120
ACCATGCAGT	GCTTCAGCTT	CATTAAGACC	ATGATGATCC	TCTTCAATTT	GCTCATCTTT	180
CTGTGTGGTG	CAGCCCTGTT	GGCAGTGGGC	ATCTGGGTGT	CAATCGATGG	GGCATCCTTT	240
				TTGTCAACGT		300
CTCATCGCAG	CCGGCGTTGT	GGTCTTAGCT	CTAGGTTTCC	TGGGCTGCTA	TGGTGCTAAG	360
ACTGAGAGCA	AGTGTGCCCT	CGTGACGTTC	TTCTTCATCC	TCCTCCTCAT	CTTCATTGCT	420
					TTCCTGACGT	480
				CAGGAANACT		540
	CACCATGAAA			CNNCCAACTA		600
GAAGANTCAC			CCTTTCCCCC	ATTTCTGTTG	CAATTGACAA	660
ACGTCCCCAA	CACAGCCAAT	TGAAAACCTG	CACCCAACCC	AAANGGGTCC	CCAACCANAA	720
ATTNAAGGG	_					729

# (2) INFORMATION FOR SEQ ID NO:14:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 816 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

TGCTCTTCCT	CAAAGTTGTT	CTTGTTGCCA	TAACAACCAC	CATAGGTAAA	GCGGGCGCAG	60
TGTTCGCTGA	AGGGGTTGTA	GTACCAGCGC	GGGATGCTCT	CCTTGCAGAG	TCCTGTGTCT	120
GGCAGGTCCA	CGCAGTGCCC	TTTGTCACTG	GGGAAATGGA	TGCGCTGGAG	CTCGTCAAAG	180
CCACTCGTGT	ΔΥΤΤΤΤΤΟΔΟΔ	GGCAGCCTCG	TCCGACGCGT	CGGGGCAGTT	GGGGGTGTCT	240
TCACACTCCA	GGAAACTGTC	NATGCAGCAG	CCATTGCTGC	AGCGGAACTG	GGTGGGCTGA	300
TOTACTACT						

CANGTGCCAG	AGCACACTGG	ATGGCGCCTT	TCCATGNNAN	GGGCCCTGNG	GGAAAGTCCC	360
TGANCCCCAN	ANCTGCCTCT	CAAANGCCCC	ACCTTGCACA	CCCCGACAGG	CTAGAATGGA	420
ATCTTCTTCC	CGAAAGGTAG	TTNTTCTTGT	TGCCCAANCC	ANCCCCNTAA	ACAAACTCTT	480
GCANATCTGC	TCCGNGGGGG	TCNTANTACC	ANCGTGGGAA	AAGAACCCCA	GGCNGCGAAC	540
CAANCTTGTT	TGGATNCGAA	GCNATAATCT	NCTNTTCTGC	TTGGTGGACA	GCACCANTNA	600
CTGTNNANCT	TTAGNCCNTG	GTCCTCNTGG	GTTGNNCTTG	AACCTAATCN	CCNNTCAACT	660
GGGACAAGGT	AANTNGCCNT	CCTTTNAATT	CCCNANCNTN	CCCCCTGGTT	TGGGGTTTTN	720
CNCNCTCCTA	CCCCAGAAAN	NCCGTGTTCC	CCCCCAACTA	GGGGCCNAAA	CCNNTTNTTC	780
CACAACCCTN	CCCCACCCAC	GGGTTCNGNT	GGTTNG			816

### (2) INFORMATION FOR SEQ ID NO:15:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 783 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

CCAAGGCCTG	GGCAGGCATA	NACTTGAAGG	TACAACCCCA	GGAACCCCTG	GTGCTGAAGG	60
ATGTGGAAAA	CACAGATTGG	CGCCTACTGC	GGGGTGACAC	GGATGTCAGG	GTAGAGAGGA	120
AAGACCCAAA	CCAGGTGGAA	CTGTGGGGAC	TCAAGGAANG	CACCTACCTG	TTCCAGCTGA	180
CAGTGACTAG	CTCAGACCAC	CCAGAGGACA	CGGCCAACGT	CACAGTCACT	GTGCTGTCCA	240
CCAAGCAGAC	AGAAGACTAC	TGCCTCGCAT	CCAACAANGT	GGGTCGCTGC	CGGGGCTCTT	300
TCCCACGCTG	GTACTATGAC	CCCACGGAGC	AGATCTGCAA	GAGTTTCGTT	TATGGAGGCT	360
GCTTGGGCAA	CAAGAACAAC	TACCTTCGGG	AAGAAGAGTG	CATTCTANCC	TGTCNGGGTG	420
TGCAAGGTGG	GCCTTTGANA	NGCANCTCTG	GGGCTCANGC	GACTTTCCCC	CAGGGCCCCT	480
CCATGGAAAG	GCGCCATCCA	NTGTTCTCTG	GCACCTGTCA	GCCCACCCAG	TTCCGCTGCA	540
NCAATGGCTG	CTGCATCNAC	ANTTTCCTNG	AATTGTGACA	ACACCCCCA	NTGCCCCCAA	600
CCCTCCCAAC	AAAGCTTCCC	TGTTNAAAAA	TACNCCANTT	GGCTTTTNAC	AAACNCCCGG	660
CNCCTCCNTT	TTCCCCNNTN	AACAAAGGGC	NCTNGCNTTT	GAACTGCCCN	AACCCNGGAA	720
TCTNCCNNGG	AAAAANTNCC	CCCCTGGTT	CCTNNAANCC	CCTCCNCNAA	ANCTNCCCCC	780
CCC						783

- (2) INFORMATION FOR SEQ ID NO:16:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 801 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

GCCCCAATTC	CAGCTGCCAC	ACCACCCACG	GTGACTGCAT	TAGTTCGGAT	GTCATACAAA	60
AGCTGATTGA	AGCAACCCTC	TACTTTTTGG	TCGTGAGCCT	TTTGCTTGGT	GCAGGTTTCA	120
TTGGCTGTGT	TGGTGACGTT	GTCATTGCAA	CAGAATGGGG	GAAAGGCACT	GTTCTCTTTG	180
AAGTAGGGTG	AGTCCTCAAA	ATCCGTATAG	TTGGTGAAGC	CACAGCACTT	GAGCCCTTTC	240
ATGGTGGTGT	TCCACACTTG	AGTGAAGTCT	TCCTGGGAAC	CATAATCTTT	CTTGATGGCA	300
GGCACTACCA	GCAACGTCAG	GAAGTGCTCA	GCCATTGTGG	TGTACACCAA	GGCGACCACA	360
GCAGCTGCAA	CCTCAGCAAT	GAAGATGAGG	AGGAGGATGA	AGAAGAACGT	CNCGAGGGCA	420
CACTTGCTCT	CCGTCTTAGC	ACCATAGCAG	CCCANGAAAC	CAAGAGCAAA	GACCACAACG	480
CCNGCTGCGA	ATGAAAGAAA	NTACCCACGT	TGACAAACTG	CATGGCCACT	GGACGACAGT	540

TGGCCCGAAN	ATCTTCAGAA	AAGGGATGCC	CCATCGATTG	AACACCCANA	TGCCCACTGC	600
CNACAGGGCT	GCNCCNCNCN	GAAAGAATGA	GCCATTGAAG	AAGGATCNTC	NTGGTCTTAA	660
TGAACTGAAA	CCNTGCATGG	TGGCCCCTGT	TCAGGGCTCT	TGGCAGTGAA	TTCTGANAAA	720
AAGGAACNGC	NTNAGCCCCC	CCAAANGANA	AAACACCCCC	GGGTGTTGCC	CTGAATTGGC	780
GGCCAAGGAN	CCCTGCCCCN	G				801

- (2) INFORMATION FOR SEQ ID NO:17:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 740 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

GTGAGAGCCA	GGCGTCCCTC	TGCCTGCCCA	CTCAGTGGCA	ACACCCGGGA	GCTGTTTTGT	60
CCTTTGTGGA	GCCTCAGCAG	TTCCCTCTTT	CAGAACTCAC	TGCCAAGAGC	CCTGAACAGG	120
AGCCACCATG	CAGTGCTTCA	GCTTCATTAA	GACCATGATG	ATCCTCTTCA	ATTTGCTCAT	180
CTTTCTGTGT	GGTGCAGCCC	TGTTGGCAGT	GGGCATCTGG	GTGTCAATCG	ATGGGGCATC	240
CTTTCTGAAG	ATCTTCGGGC	CACTGTCGTC	CAGTGCCATG	CAGTTTGTCA	ACGTGGGCTA	300
				TTCCTGGGCT		360
				ATCCTCCTCC		420
				ACAATGGCTG		480
GACGTTGCTG		CCATCAANAA		TTCCCAGGAA		540
AANTNTGGAA	CACCNCCATG	AAAAGGGCTC	CAATTTCTGN	TGGCTTCCCC	AACTATACCG	600
GAATTTTGAA	AGANTCNCCC	TACTTCCAAA	AAAAAANANT	TGCCTTTNCC	CCCNTTCTGT	660
TGCAATGAAA	ACNTCCCAAN	ACNGCCAATN	AAAACCTGCC	CNNNCAAAAA	GGNTCNCAAA	720
CAAAAAAANT						740

- (2) INFORMATION FOR SEQ ID NO:18:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 802 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

C	CGCTGGTTG				AGCATACACA		60
C	AAGGTCTTC	CAGCTGCCGC	ACATTACGCA	GGGCAAGAGC	CTCCAGCAAC	ACTGCATATG	120
G	GATACACTT	TACTTTAGCA	GCCAGGGTGA	CAACTGAGAG	GTGTCGAAGC	TTATTCTTCT	180
G.	AGCCTCTGT	TAGTGGAGGA	AGATTCCGGG	CTTCAGCTAA	GTAGTCAGCG	TATGTCCCAT	240
A	AGCAAACAC	TGTGAGCAGC	CGGAAGGTAG	AGGCAAAGTC	ACTCTCAGCC	AGCTCTCTAA	300
C.	ATTGGGCAT	GTCCAGCAGT	TCTCCAAACA	CGTAGACACC	AGNGGCCTCC	AGCACCTGAT	360
G	GATGAGTGT	GGCCAGCGCT	GCCCCTTGG	CCGACTTGGC	TAGGAGCAGA	AATTGCTCCT	420
G	GTTCTGCCC	TGTCACCTTC	ACTTCCGCAC	TCATCACTGC	ACTGAGTGTG	GGGGACTTGG	480
G	CTCAGGATG	TCCAGAGACG	TGGTTCCGCC	CCCTCNCTTA	ATGACACCGN	CCANNCAACC	540
G	TCGGCTCCC	GCCGANTGNG	TTCGTCGTNC	CTGGGTCAGG	GTCTGCTGGC	CNCTACTTGC	600
A	ANCTTCGTC	NGGCCCATGG	AATTCACCNC	ACCGGAACTN	GTANGATCCA	CTNNTTCTAT	660
A	ACCGGNCGC	CACCGCNNNT	GGAACTCCAC	TCTTNTTNCC	TTTACTTGAG	GGTTAAGGTC	720
Α	CCCTTNNCG	TTACCTTGGT	CCAAACCNTN	CCNTGTGTCG	ANATNGTNAA	TCNGGNCCNA	780
т	NCCANCONO	ATANGAAGCC	NG				802
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## (2) INFORMATION FOR SEQ ID NO:19:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 731 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

CNAAGCTTCC	AGGTNACGGG	CCGCNAANCC	TGACCCNAGG	TANCANAANG	CAGNCNGCGG	60
GAGCCCACCG	TCACGNGGNG	GNGTCTTTAT	NGGAGGGGC	GGAGCCACAT	CNCTGGACNT	120
		NCNCANTGCA				180
CAGGAACCAA	GANCAAANNC	TGCTCCNNTC	CAAGTCGGCN	NAGGGGGCGG	GGCTGGCCAC	240
				TGTTTGGAGA		300
CATGCCCAGN	GTTANATAAC	NGGCNGAGAG	TNANTTTGCC	TCTCCCTTCC	GGCTGCGCAN	360
CGNGTNTGCT	TAGNGGACAT	AACCTGACTA	CTTAACTGAA	CCCNNGAATC	TNCCNCCCCT	420
		AACTTCGACA			TGCTCAAGTA	480
		GTNTGCTNGA			TCGGTCCTGG	540
		TATGTTTCTG			ACAANCNACC	600
		GGCCCCCAAT			TTTANCCCCN	660
	CGGCCTTTTA	CNANCNTCNN	NNACNGGGNA	AAACCNNNGC	TTTNCCCAAC	720
NNAATCCNCC						731

- (2) INFORMATION FOR SEQ ID NO:20:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 754 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

TTTTTTTTT	TTTTTTTTTT	TAAAAACCCC	CTCCATTNAA	TGNAAACTTC	CGAAATTGTC	60
	NTCCAAATNN	CCNTTTCCGG	GNGGGGGTTC	CAAACCCAAN	TTANNTTTGG	120
	AAATNTTNNT	TGGNGGNNNA	ANCCNAATGT	NANGAAAGTT	NAACCCANTA	180
TNANCTTNAA		CCNGTNGNTT		TTAACCCTTA	ANTCCCTCCG	240
		AANTTCTCNT				300
		GCCTGAATTA			AANAAATTN	360
		TCCCCCCNNC			TTNGAATTGG	420
		GGNNNNTCCC			CCCCNTCGGG	480
		TGTTTAAGGG			AAAAAANCTC	540
		NCCCCCCCC			TGGGGTTTGG	600
		CCCTNTTNCC			AGGTTNGNGT	660
	GGCCCCNCCN				GCCTNGGCGA	720
AGTCCNTTGN			CGGG			754
MOTOCHITCH	VOCALI I VVVII	000000011111				

- (2) INFORMATION FOR SEQ ID NO:21:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 755 base pairs
    - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

### (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

ATCANCCCAT	GACCCCNAAC	NNGGGACCNC	TCANCCGGNC	NNNCNACCNC	CGGCCNATCA	60
NNGTNAGNNC	ACTNCNNTTN	NATCACNCCC	CNCCNACTAC	GCCCNCNANC	CNACGCNCTA	120
NNCANATNCC	ACTGANNGCG	CGANGTNGAN	NGAGAAANCT	NATACCANAG	NCACCANACN	180
CCAGCTGTCC	NANAANGCCT	NNNATACNGG	NNNATCCAAT	NTGNANCCTC	CNAAGTATTN	240
NNCNNCANAT	GATTTTCCTN	ANCCGATTAC	CCNTNCCCCC	TANCCCCTCC	CCCCCAACNA	300
CGAAGGCNCT	GGNCCNAAGG	NNGCGNCNCC	CCGCTAGNTC	CCCNNCAAGT	CNCNCCTA	360
AACTCANCCN	NATTACNCGC	TTCNTGAGTA	TCACTCCCCG	AATCTCACCC	TACTCAACTC	420
AAAAANATCN	GATACAAAAT	AATNCAAGCC	TGNTTATNAC	ACTNTGACTG	GGTCTCTATT	480
TTAGNGGTCC	NTNAANCNTC	CTAATACTTC	CAGTCTNCCT	TCNCCAATTT	CCNAANGGCT	540
CTTTCNGACA	GCATNTTTTG	GTTCCCNNTT	GGGTTCTTAN	NGAATTGCCC	TTCNTNGAAC	600
GGGCTCNTCT	TTTCCTTCGG	TTANCCTGGN	TTCNNCCGGC	CAGTTATTAT	TTCCCNTTTT	660
AAATTCNTNC	CNTTTANTTT	TGGCNTTCNA	AACCCCCGGC	CTTGAAAACG	GCCCCCTGGT	720
AAAAGGTTGT	TTTGANAAAA	TTTTTGTTTT	GTTCC			755

# (2) INFORMATION FOR SEQ ID NO:22:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 849 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

	TTTTTANGTG	TNGTCGTGCA	GGTAGAGGCT	TACTACAANT	GTGAANACGT	60
TITITITI	IIIIIANGIG					120
ACGCTNGGAN	TAANGCGACC	CGANTTCTAG	GANNCNCCCT	AAAATCANAC	TGTGAAGATN	
ATCCTGNNNA	CGGAANGGTC	ACCGGNNGAT	NNTGCTAGGG	TGNCCNCTCC	CANNNCNTTN	180
CATAACTCNG	NGGCCCTGCC	CACCACCTTC	GGCGGCCCNG	NGNCCGGGCC	CGGGTCATTN	240
GNNTTAACCN	CACTNNGCNA	NCGGTTTCCN	NCCCCNNCNG	ACCCNGGCGA	TCCGGGGTNC	300
TCTGTCTTCC	CCTGNAGNCN	ANAAANTGGG	CCNCGGNCCC	CTTTACCCCT	NNACAAGCCA	360
CNGCCNTCTA	NCCNCNGCCC	CCCCTCCANT	NNGGGGGACT	GCCNANNGCT	CCGTTNCTNG	420
NNACCCCNNN	GGGTNCCTCG	GTTGTCGANT	CNACCGNANG	CCANGGATTC	CNAAGGAAGG	480
TGCGTTNTTG	GCCCCTACCC	TTCGCTNCGG	NNCACCCTTC	CCGACNANGA	NCCGCTCCCG	540
CNCNNCGNNG	CCTCNCCTCG	CAACACCCGC	NCTCNTCNGT	NCGGNNNCCC	CCCCACCCGC	600
NCCCTCNCNC	NGNCGNANCN	CTCCNCCNCC	GTCTCANNCA	CCACCCCGCC	CCGCCAGGCC	660
NTCANCCACN	GGNNGACNNG	NAGCNCNNTC	GCNCCGCGCN	GCGNCNCCCT	CGCCNCNGAA	720
CTNCNTCNGG	CCANTNNCGC	TCAANCCNNA	CNAAACGCCG	CTGCGCGGCC	CGNAGCGNCC	780
NCCTCCNCGA	•		ANGNNTTCCN	CGAGGACACN	NNACCCCGCC	840
NNCANGCGG						849
MINUANGUGG						

## (2) INFORMATION FOR SEQ ID NO:23:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 872 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

GCGCAAACTA	TACTTCGCTC	GNACTCGTGC	GCCTCGCTNC	TCTTTTCCTC	CGCAACCATG	60
TCTGACNANC	CCGATTNGGC	NGATATCNAN	AAGNTCGANC	AGTCCAAACT	GANTAACACA	120
CACACNCNAN	AGANAAATCC	NCTGCCTTCC	ANAGTANACN	ATTGAACNNG	AGAACCANGC	180
NGGCGAATCG	TAATNAGGCG	TGCGCCGCCA	ATNTGTCNCC	GTTTATTNTN	CCAGCNTCNC	240
CTNCCNACCC	TACNTCTTCN	NAGCTGTCNN	ACCCCTNGTN	CGNACCCCCC	NAGGTCGGGA	300
TCGGGTTTNN	NNTGACCGNG	CNNCCCCTCC	CCCCNTCCAT	NACGANCCNC	CCGCACCACC	360
NANNGCNCGC	NCCCCGNNCT	CTTCGCCNCC	CTGTCCTNTN	CCCCTGTNGC	CTGGCNCNGN	420
ACCGCATTGA	CCCTCGCCNN	CTNCNNGAAA	NCGNANACGT	CCGGGTTGNN	ANNANCGCTG	480
TGGGNNNGCG	TCTGCNCCGC	GTTCCTTCCN	NCNNCTTCCA	CCATCTTCNT	TACNGGGTCT	540
CCNCGCCNTC	TCNNNCACNC	CCTGGGACGC	TNTCCTNTGC	CCCCCTTNAC	TCCCCCCCTT	600
CGNCGTGNCC		NTCATTTNCA	NACGNTCTTC	ACAANNNCCT	GGNTNNCTCC	660
CNANCNGNCN	GTCANCCNAG	GGAAGGGNGG	GGNNCCNNTG	NTTGACGTTG	NGGNGANGTC	720
CGAANANTCC	TCNCCNTCAN	CNCTACCCCT	CGGGCGNNCT	CTCNGTTNCC	AACTTANCAA	780
NTCTCCCCCG	NGNGCNCNTC	TCAGCCTCNC	CCNCCCCNCT	CTCTGCANTG	TNCTCTGCTC	840
TNACCNNTAC			CC			872

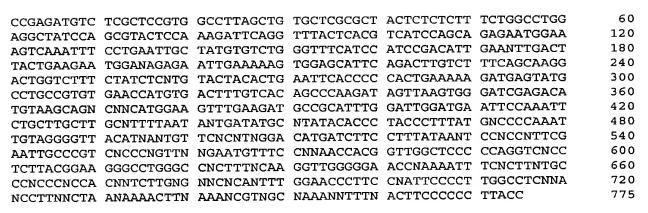
# (2) INFORMATION FOR SEQ ID NO:24:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 815 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

GCATGCAAGC	TTGAGTATTC	TATAGNGTCA	CCTAAATANC	TTGGCNTAAT	CATGGTCNTA	60
NCTGNCTTCC		GTATACNAAN	TANATATGAA	TCTNATNTGA	CAAGANNGTA	120
		TNNTGTCCAT	CCTGTCNGAN	CANATTCCCA	TNNATTNCGN	180
TCNTNCATTA			NTCNNNTNNN	NCACCNNCAT	CTATCNTNCC	240
CGCATTCNCN		TAATNGGGAA		NACATGTTCA		300
GCNCCCTGAC	TGGNAGAGAT	0011211				360
AANANCCCCC	CGCNGNCCAC			CCAAGACCTC		420
AACCTGCGTC	AGANNCATCA	AACNTGGGAA	ACCCGCNNCC	ANGTNNAAGT	NGNNNCANAN	
	AGGNTTNACC		AGCGCCCCCT	TTNGTGCCTT	ANAGNGNAGC	480
GTGTCCNANC		GANACGCGCC			CAATGTCGNC	540
					ATCCCNCANC	600
GAACCCCCTA			AANTCCCGGA		GGCCNGNCTC	660
CCCNCCCTAC					NTCGNAAGGA	720
CCCCACCGGT	NNCCNTGGGG	GGGTGAANCT				780
ACCGGNCCTN	GGNCGAANNG	ANCNNTCNGA	AGNGCCNCNT	CGTATAACCC	CCCCTCNCCA	815
NCCNACNGNT	AGNTCCCCCC	CNGGGTNCGG	AANGG			815

# (2) INFORMATION FOR SEQ ID NO:25:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 775 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:



## (2) INFORMATION FOR SEQ ID NO:26:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 820 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

ANATTANTAC	AGTGTAATCT	TTTCCCAGAG	GTGTGTANAG	GGAACGGGGC	CTAGAGGCAT	60
CCCANAGATA	NCTTATANCA	ACAGTGCTTT	GACCAAGAGC	TGCTGGGCAC	ATTTCCTGCA	120
GAAAAGGTGG	CGGTCCCCAT	CACTCCTCCT	CTCCCATAGC	CATCCCAGAG	GGGTGAGTAG	180
CCATCANGCC	TTCGGTGGGA	GGGAGTCANG	GAAACAACAN	ACCACAGAGC	ANACAGACCA	240
NTGATGACCA	TGGGCGGGAG	CGAGCCTCTT	CCCTGNACCG	GGGTGGCANA	NGANAGCCTA	300
NCTGAGGGGT	CACACTATAA	ACGTTAACGA	CCNAGATNAN	CACCTGCTTC	AAGTGCACCC	360
		ACCNNNAACT	GCNGCCTGGG	GACAGCNCTG	GGANCAGCTA	420
ACNNAGCACT	CACCTGCCCC	CCCATGGCCG	TNCGCNTCCC	TGGTCCTGNC	AAGGGAAGCT	480
	ATTNCGGGGA		NCCCCCTCCT	CCANCTGTGA	AGGAAAANN	540
GATGGAATTT	TNCCCTTCCG	GCCNNTCCCC	TCTTCCTTTA	CACGCCCCCT	NNTACTCNTC	600
TCCCTCTNTT		ACTTTTNACC	CCNNNATTTC	CCTTNATTGA	TCGGANNCTN	660
GANATTCCAC	TNNCGCCTNC		NAANACNAAA	NACTNTCTNA	CCCNGGGGAT	720
GGGNNCCTCG	NTCATCCTCT	CTTTTTCNCT	ACCNCCNNTT	CTTTGCCTCT	CCTTNGATCA	780
TCCAACCNTC	GNTGGCCNTN	CCCCCCNNN	TCCTTTNCCC			820
100,2,000,10	01.100001.11.					

### (2) INFORMATION FOR SEQ ID NO:27:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 818 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

TCTGGGTGAT GGCCTCTTCC	TCCTCAGGGA	CCTCTGACTG	CTCTGGGCCA	AAGAATCTCT	60
TGTTTCTTCT CCGAGCCCCA	GGCAGCGGTG	ATTCAGCCCT	GCCCAACCTG	ATTCTGATGA	120
CTGCGGATGC TGTGACGGAC	CCAAGGGGCA	AATAGGGTCC	CAGGGTCCAG	GGAGGGGCGC	180
CTGCTGAGCA CTTCCGCCCC					240
TCCGCCTCCA GGGTTCTGCT					300

TTCTTCCTGC	CCCNTCCCTG	GCTCTGANTC	TCTGTCTTCC	TGTCCTGTGC	ANGCNCCTTG	360
GATCTCAGTT	TCCCTCNCTC	ANNGAACTCT	GTTTCTGANN	TCTTCANTTA	ACTNTGANTT	420
TATNACCNAN	TGGNCTGTNC	TGTCNNACTT	TAATGGGCCN	GACCGGCTAA	TCCCTCCCTC	480
NCTCCCTTCC	ANTTCNNNNA	ACCNGCTTNC	CNTCNTCTCC	CCNTANCCCG	CCNGGGAANC	540
CTCCTTTGCC	CTNACCANGG	GCCNNNACCG	CCCNTNNCTN	GGGGGGCNNG	GTNNCTNCNC	600
CTGNTNNCCC	CNCTCNCNNT	TNCCTCGTCC	CNNCNNCGCN	NNGCANNTTC	NCNGTCCCNN	660
TNNCTCTTCN	NGTNTCGNAA	NGNTCNCNTN	TNNNNNGNCN	NGNTNNTNCN	TCCCTCTCNC	720
				NGGNNNTNNN		780
		CCTCCNNTCT				818

## (2) INFORMATION FOR SEQ ID NO:28:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 731 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

AGGAAGGGCG	GAGGGATATT	GTANGGGATT	GAGGGATAGG	AGNATAANGG	GGGAGGTGTG	60
	ANGGTGNNGT	TCTCTTTTGA	ANGAGGGTTG	NGTTTTTANN	CCNGGTGGGT	120
100011111	CATTGTATGG	AGNNAAAGGN	TTTNAGGGAT	TTTTCGGCTC	TTATCAGTAT	180
•	GTNAATCGGA	AAATNATNTT	TCNNCNGGAA	AATNTTGCTC	CCATCCGNAA	240
			CNGCCANGTT	TCCCAGGCTG	CTANAATCGT	300
	NAAGTGGGAN		AACCTNNCAC	AGAGNATCCN	TACCCGACTG	360
	TCGCCCTNTG	ACTCTGCNNG	AGCCCAATAC	CCNNGNGNAT	GTCNCCCNGN	420
		TCGNGGCTNN	GANCATCANG	GGGTTTCGCA	TCAAAAGCNN	480
		TNGCCTCATC		CCCTCNNCCA	TTTNGCCGTC	540
	ACGCTNNTNG	_	GANATTTTNC	CCGCCTNGGG	NAANCCTCCT	600
GNAATGGGTA			GNGGTNTACT	AATCNNCTNC	ACGCNTNCTT	660
TCTCNACCCC			GGCNAATGGG	GTCTCCCCNN	CGANGGGGGG	720
NNNCCCANNC		<del>-</del>				731
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- (2) INFORMATION FOR SEQ ID NO:29:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 822 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

ACTAGTCCAG	TGTGGTGGAA	TTCCATTGTG	TTGGGGNCNC	TTCTATGANT	ANTNTTAGAT	60
CGCTCANACC	TCACANCCTC	CCNACNANGC	CTATAANGAA	NANNAATAGA	NCTGTNCNNT	120
ATNTNTACNC	TCATANNCCT	CNNNACCCAC	TCCCTCTTAA	CCCNTACTGT	GCCTATNGCN	180
TNNCTANTCT	NTGCCGCCTN	CNANCCACCN	GTGGGCCNAC	CNCNNGNATT	CTCNATCTCC	240
TCNCCATNTN	GCCTANANTA	NGTNCATACC	CTATACCTAC	NCCAATGCTA	NNNCTAANCN	300
TCCATNANTT	ANNNTAACTA	CCACTGACNT	NGACTTTCNC	ATNANCTCCT	AATTTGAATC	360
TACTCTGACT	CCCACNGCCT	ANNNATTAGC	ANCNTCCCCC	NACNATNTCT	CAACCAAATC	420
NTCAACAACC	TATCTANCTG	TTCNCCAACC	NTTNCCTCCG	ATCCCCNNAC	AACCCCCCTC	480
CCAAATACCC	NCCACCTGAC	NCCTAACCCN	CACCATCCCG	GCAAGCCNAN	GGNCATTTAN	540
CCACTGGAAT	CACNATNGGA	NAAAAAAAAC	CCNAACTCTC	TANCNCNNAT	CTCCCTAANA	600

AATNCTCCTN	NAATTTACTN	NCANTNCCAT	CAANCCCACN	TGAAACNNAA	CCCCTGTTTT	660
TANATCCCTT	CTTTCGAAAA	CCNACCCTTT	ANNNCCCAAC	CTTTNGGGCC	CCCCCNCTNC	720
					ANANNNTCCG	780
		GGGGNCCCTT				822

- (2) INFORMATION FOR SEQ ID NO:30:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 787 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

CGGCCGCCTG	CTCTGGCACA	TGCCTCCTGA	ATGGCATCAA	AAGTGATGGA	CTGCCCATTG	60
	CCTTCTCTCC	TACTGTCATT	ATGGAGCCCT	GCAGACTGAG	GGCTCCCCTT	120
GTCTGCAGGA	TTTGATGTCT	GAAGTCGTGG	AGTGTGGCTT	GGAGCTCCTC	ATCTACATNA	180
0.0.0		TCTCTCGCCA	GCCTCCCCCT	TCTCTCCACG	CTCTCCANGG	240
ACACCAGGGG		CCCATTATTC	CCAGNANGAC	ATGGTGTTTC	TCCACGCGGA	300
CCCATGGGGC		AGGGTCTCCT	TTGACACCAT	CTCTCCCGTC	CTGCCTGGCA	360
GGCCGTGGGA	TCCACTANTT		CGCCACCNCG	GTGGGAGCTC	CAGCTTTTGT	420
TCCCNTTAAT	GAAGGTTAAT	TGCNCGCTTG	GCGTAATCAT	NGGTCANAAC	TNTTTCCTGT	480
GTGAAATTGT	TTNTCCCCTC		NCNACATACN		CATAAAGTGT	540
•	GGGTNGCCTN				GGCTCATGGC	600
TAAAGCCTGG	TTCNGGAAAA	CTGTCNTCCC	CTGCNTTNNT	GAATCGGCCA	CCCCCCNGGG	660
CCGCTTTCCN	TGCNTTTTNG	GGGGNTCCTT	CCNCTTCCCC		CCCTNCGCCT	720
AAAAGCGGTT					AGNNNGNTAT	780
CGGTCGTTNC	NGGTNGCGGG	GAANGGGNAI	MINICICCONC	11.1.000001.0		787
CCCCAAA						

- (2) INFORMATION FOR SEQ ID NO:31:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 799 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

<b>Ժ</b>	TTTTTTTGGC	GATGCTACTG	TTTAATTGCA	GGAGGTGGGG	GTGTGTGTAC	60
CATGTACCAG			AAGGAGGAG	GGCAGAGCGC	CCTGCTGAGC	120
	TCCTGCAGCC		GTCTCTTGGC	GCAGGCACAT	GGGGAGGCCT	180
	GGGGGCCACC		TGGGAGCACT		GGAGTGGGTG	240
					GATTTCACCA	300
GTGGCTGGTN	CNAATGGCCT	NGGNAACTTC			ΔСΤGΤΤΤСΤΤ	360
					ACTTGGTACA	420
					CCNTCTNTTG	480
		CCCNTCNAAN			GNTGGGCTTG	540
CCTGGGCCCT	TAANTACCCA	CACCGGAACT	CANTTANTTA	TTCATCTING		600
NTNATCNCCN		CCAAGTTGAA			CCCATAGNAN	
NTTTTNNCNT	CANCTAATGC	CCCCCNGGC	AACNATCCAA	TCCCCCCCCN	TGGGGGCCCC	660
						720
CCNNNGCNCC	CCCGCACGCA	GAACANAAGG	NTNGAGCCNC	CGCANNNNNN	NGGTNNCNAC	780
CTCGCCCCCC						799

# (2) INFORMATION FOR SEQ ID NO:32:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 789 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

TTTTTTTTT	TTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTT	TTTTTTTTT	60
TTTTNCCNAG	GGCAGGTTTA	TTGACAACCT	CNCGGGACAC	AANCAGGCTG	GGGACAGGĂC	120
GGCAACAGGC	TCCGGCGGCG	GCGGCGGCGG	CCCTACCTGC	GGTACCAAAT	NTGCAGCCTC	180
00012101101					CTCGGCCNTN	240
	CTGGGATTTN			GGTCGCANCC		300
	AGTGGTNTTA			CCCCNTGGAA	ACCACTTNTC	360
					TGGTTANTNT	420
	ATCATNACTC				CCCCAAAACC	480
GGNCCATGTC	TTMMCCCCCT	TECTECNATN	TNCATCACCT	CCCGGGCNCA	NCAGGNCAAC	540
				CCAGTTTCAA		600
				GGAACCCACG	CCTCTNNCTT	660
	CCCAAATCCT		11010001110		001411110	720
TGGNNGGCAA			CCCGGTGGGC		TANAAACGGG	780
NTCCTNNNCA	CCATCCCCCC	NNGNNACGNC	TANCAANGNA	TCCCTTTTTT	IMMAAACGGG	789
CCCCCNCG						700

- (2) INFORMATION FOR SEQ ID NO:33:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 793 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

GACAGAACAT	GTTGGATGGT	GGAGCACCTT	TCTATACGAC	TTACAGGACA	GCAGATGGGG	60
AATTCATGGC	TGTTGGAGCA			GCTGCTGATC		120
GACTAAAGTC	TGATGAACTT	CCCAATCAGA	TGAGCATGGA	TGATTGGCCA	GAAATGAANA	180
<del>-</del>	AGATGTATTT		CGAAGGCAGA	GTGGTGTCAA	ATCTTTGACG	240
	CTGTGTGACT	CCGGTTCTGA	CTTTTGAGGA	GGTTGTTCAT	CATGATCACA	300
ACAANGAACG	GGGCTCGTTT	ATCACCANTG	AGGAGCAGGA	CGTGAGCCCC	CGCCCTGCAC	360
	AAACACCCCA	GCCATCCCTT	CTTTCAAAAG	GGATCCACTA	CTTCTAGAGC	420
•		TCCAGCTTTT	GTTCCCTTTA	GTGAGGGTTA	ATTGCGCGCT	480
TGGCGTAATC		CTGTTTCCTG	TGTGAAATTG	TTATCCGCTC	ACAATTCCAC	540
ACAACATACG	ANCCGGAAGC	ATNAAATTTT	AAAGCCTGGN	GGTNGCCTAA	TGANTGAACT	600
NACTCACATT	AATTGGCTTT	GCGCTCACTG	CCCGCTTTCC	AGTCCGGAAA	ACCTGTCCTT	660
GCCAGCTGCC	NTTAATGAAT	CNGGCCACCC	CCCGGGGAAA	AGGCNGTTTG	CTTNTTGGGG	720
CGCNCTTCCC	GCTTTCTCGC	TTCCTGAANT	CCTTCCCCCC	GGTCTTTCGG	CTTGCGGCNA	780
ACGGTATCNA	CCT					793

- (2) INFORMATION FOR SEQ ID NO:34:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 756 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

GCCGCGACCG	GCATGTACGA	GCAACTCAAG	GGCGAGTGGA	ACCGTAAAAG	CCCCAATCTT	60
ANCAAGTGCG	GGGAANAGCT	GGGTCGACTC	AAGCTAGTTC	TTCTGGAGCT	CAACTTCTTG	120
	GGACCAAGCT		CAGCTAATTC	TGGCCCGTGA	CATACTGGAG	180
• • • • • • • • • • • • • • • • • • • •	AATGGAGCAT			CCTTCGAGCG		240
	GCTACTACTT			CCGAGTCAGC		300
	GCCTCAACCT		-	ACCGGGTGGC		360
						420
ACGGANTTGG	ANCGGCTGCC			AATGTCTACA		
GTGTCCTGGA	GCAATACTGA	TGGANGGCAG	CTACCNCAAA	GTNTTCCTGG	CCNAGGGTAA	480
			TTGACATCCT	GCTCGACACT	ATCAGGGATG	540
AAAATCCCNG	COTTCCTCCA	GAAAGGCTNC	AANAANATCC	TTTTCNCTGA	AGGCCCCCGG	600
	GGTTGCTCCA		COCCECTANG	CTCCA A CCTT	тесттисест	660
ATNCNCTAGT	NCTAGAATCG			CTCCAACCTT		
TTACTGAGGG	TTNATTGCCG	CCCTTGGCGT	TATCATGGTC	ACNCCNGTTN	CCTGTGTTGA	720
AATTNTTAAC	CCCCCACAAT	TCCACGCCNA	CATTNG			756

- (2) INFORMATION FOR SEQ ID NO:35:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 834 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

GGGGATCTCT	ANATCNACCT	GNATGCATGG	TTGTCGGTGT	GGTCGCTGTC	GATGAANATG	60
AACAGGATCT		-			TCTGCCGTCA	120
TAGTCAGACA	CNCTCTTGGG	CAAAAAACAN	CAGGATNTGA	GTCTTGATTT	CACCTCCAAT	180
AATCTTCNGG	<b></b>		GATGACNANG	GGCAGCTGGT	TGTGTNTGAT	240
	ANGTTCTCCT	TGGTGACCTC		TTGTTCCGGC	CTTCATCAAA	300
CTTCTNNAAN		CANCTTTGTC	GAGCTGGNAT	TTGGANAACA	CGTCACTGTT	360
GGAAACTGAT	711011111111111111111111111111111111111	<b></b>	TCGCCTCTGC	TGCCTGCAAA	AAACTTGCTT	420
GGCNCAAATC	CGACTCCCCN	TCCTTGAAAG		CACCCCCTC	CCTGGACTCC	480
NNCAANGACT	CTNCCGCTNC		CAGGGTTGGT	GGCANNCCGG	GCCCNTGCGC	540
	AGTTCACNAT			GCTGTTNTAT	TCCTTGGGGG	600
GGAANCCGTC		TGAANNAACT		GAATAGCCGC	GCNTCNCCNT	660
ACNTNCTGGG	CCGGGTTCAA		TTGNCNNTCN	CCTCGGGCCA	TTCTGGATTT	720
NCCNAACTTT	TTCCTTCCCC	CNCCCCNCGG	NGTTTGGNTT	TTTCATNGGG	CCCCAACTCT	780
	ANTCCCCTGG		CNCCCCCTNT	GGTCCCNTNG	GGCC	834
GCINIIGGCC	WATCCCCIOO					

- (2) INFORMATION FOR SEQ ID NO:36:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 814 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

COOMOOOM	COMOCOCOCO	CCCCTTTCCA	TONONANCOC	TCCCTTCANG	ጥጥል ል ል ጥል ሮ እነእነ	60
CCTAGNAAAC	ATTAATGGGT	TGCTCTACTA	ATACATCATA	CNAACCAGTA	AGCCTGCCCA	120
NAACGCCAAC	TCAGGCCATT	CCTACCAAAG	GAAGAAAGGC	TGGTCTCTCC	ACCCCCTGTA	180
				CTNAAGTCTT		240
AATGGAAAAA	AAAAATAAAC	AANAGGTTTT	GTTCTCATGG	CTGCCCACCG	CAGCCTGGCA	300
CTAAAACANC	CCAGCGCTCA	CTTCTGCTTG	GANAAATATT	CTTTGCTCTT	TTGGACATCA	360
GGCTTGATGG	TATCACTGCC	ACNTTTCCAC	CCAGCTGGGC	NCCCTTCCCC	CATNTTTGTC	420
ANTGANCTGG	AAGGCCTGAA	NCTTAGTCTC	CAAAAGTCTC	NGCCCACAAG	ACCGGCCACC	480
AGGGGANGTC	NTTTNCAGTG	GATCTGCCAA	ANANTACCCN	TATCATCNNT	GAATAAAAAG	540
GCCCCTGAAC	GANATGCTTC	CANCANCCTT	TAAGACCCAT	AATCCTNGAA	CCATGGTGCC	600
CTTCCGGTCT	GATCCNAAAG	GAATGTTCCT	GGGTCCCANT	CCCTCCTTTG	TTNCTTACGT	660
TGTNTTGGAC	CCNTGCTNGN	ATNACCCAAN	TGANATCCCC	NGAAGCACCC	TNCCCCTGGC	720
ATTTGANTTT	CNTAAATTCT	CTGCCCTACN	NCTGAAAGCA	CNATTCCCTN	GGCNCCNAAN	780
GGNGAACTCA	AGAAGGTCTN	NGAAAAACCA	CNCN			814

- (2) INFORMATION FOR SEQ ID NO:37:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 760 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:

GCATGCTGCT	CTTCCTCAAA	GTTGTTCTTG	TTGCCATAAC	AACCACCATA	GGTAAAGCGG	60
GCGCAGTGTT	CGCTGAAGGG	GTTGTAGTAC	CAGCGCGGGA	TGCTCTCCTT	GCAGAGTCCT	120
GTGTCTGGCA	GGTCCACGCA	ATGCCCTTTG	TCACTGGGGA	AATGGATGCG	CTGGAGCTCG	180
	TCGTGTATTT	TTCACANGCA	GCCTCCTCCG	AAGCNTCCGG	GCAGTTGGGG	240
	ACTCCACTAA			TTGCTGCAGC		300
	GTGCCAGAAC		GGCCTTTCCA	TGGAAGGGCC	TGGGGGAAAT	360
CNCCTNANCC	CAAACTGCCT	CTCAAAGGCC	ACCTTGCACA	CCCCGACAGG	CTAGAAATGC	420
				NCCTCCANCA		480
				GGGGAAANAA		540
		NAAGGNAATA				600
		GGCCGNGTTC		GTCTGAAACT	AATCACCGTC	660
ACTGGAAAAA	0	TTCCTTGAAT		CCCCTNGNTT	TGGGTNNTTT	720
		TNTTCCCCCC				760
CTCCTCTNCC	CIAAAAAICG	INTICCCCC	CCNIMIOCCO			

- (2) INFORMATION FOR SEQ ID NO:38:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 724 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

CTTCCNAAAT	TGTCCAACCC	CCTCNNCCAA	ATNNCCATTT	CCGGGGGGGG	GTTCCAAACC	120
CAAATTAATT	TTGGANTTTA	AATTAAATNT	TNATTNGGGG	AANAANCCAA	ATGTNAAGAA	180
AATTTAACCC	ATTATNAACT	TAAATNCCTN	GAAACCCNTG	GNTTCCAAAA	ATTTTTAACC	240
CTTAAATCCC	TCCGAAATTG	NTAANGGAAA	ACCAAATTCN	CCTAAGGCTN	TTTGAAGGTT	300
NGATTTAAAC	CCCCTTNANT	TNTTTTNACC	CNNGNCTNAA	NTATTTNGNT	TCCGGTGTTT	360
TCCTNTTAAN	CNTNGGTAAC	TCCCGNTAAT	GAANNNCCCT	AANCCAATTA	AACCGAATTT	420
TTTTTGAATT	GGAAATTCCN	NGGGAATTNA	CCGGGGTTTT	TCCCNTTTGG	GGGCCATNCC	480
CCCNCTTTCG	GGGTTTGGGN	NTAGGTTGAA	TTTTTNNANG	NCCCAAAAA	NCCCCCAANA	540
AAAAAACTCC	CAAGNNTTAA	TTNGAATNTC	CCCCTTCCCA	GGCCTTTTGG	GAAAGGNGGG	600
TTTNTGGGGG	CCNGGGANTT	CNTTCCCCCN	TTNCCNCCCC	CCCCCNGGT	AAANGGTTAT	660
NGNNTTTGGT	TTTTGGGCCC	CTTNANGGAC	CTTCCGGATN	GAAATTAAAT	CCCCGGGNCG	720
GCCG						724

### (2) INFORMATION FOR SEQ ID NO:39:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 751 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:

TTTTTTTTT	TTTTTCTTTG	CTCACATTTA	ATTTTTATTT	TGATTTTTTT	TAATGCTGCA	60
CAACACAATA	TTTATTTCAT	TTGTTTCTTT	TATTTCATTT	TATTTGTTTG	CTGCTGCTGT	120
TTTATTTATT	TTTACTGAAA	GTGAGAGGGA	ACTTTTGTGG	CCTTTTTTCC	TTTTTCTGTA	180
GGCCGCCTTA	AGCTTTCTAA	ATTTGGAACA	TCTAAGCAAG	CTGAANGGAA	AAGGGGGTTT	240
CGCAAAATCA	CTCGGGGGAA	NGGAAAGGTT	GCTTTGTTAA	TCATGCCCTA	TGGTGGGTGA	300
TTAACTGCTT	GTACAATTAC	NTTTCACTTT	TAATTAATTG	TGCTNAANGC	TTTAATTANA	360
CTTGGGGGTT	CCCTCCCCAN	ACCAACCCCN	CTGACAAAAA	GTGCCNGCCC	TCAAATNATG	420
TCCCGGCNNT	CNTTGAAACA	CACNGCNGAA	NGTTCTCATT	NTCCCCNCNC	CAGGTNAAAA	480
TGAAGGGTTA	CCATNTTTAA	CNCCACCTCC	ACNTGGCNNN	GCCTGAATCC	TCNAAAANCN	540
CCCTCAANCN	AATTNCTNNG	CCCCGGTCNC	GCNTNNGTCC	CNCCCGGGCT	CCGGGAANTN	600
CACCCCNGA	ANNCNNTNNC	NAACNAAATT	CCGAAAATAT	TCCCNNTCNC	TCAATTCCCC	660
CNNAGACTNT	CCTCNNCNAN	CNCAATTTTC	TTTTNNTCAC	GAACNCGNNC	CNNAAAATGN	720
NNNNCNCCTC	CNCTNGTCCN	NAATCNCCAN	C			751

- (2) INFORMATION FOR SEQ ID NO:40:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 753 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

GTGGTATTTT	CTGTAAGATC	AGGTGTTCCT	CCCTCGTAGG	TTTAGAGGAA	ACACCCTCAT	60
AGATGAAAAC	CCCCCGAGA	CAGCAGCACT	GCAACTGCCA	AGCAGCCGGG	GTAGGAGGGG	120
CGCCCTATGC	ACAGCTGGGC	CCTTGAGACA	GCAGGGCTTC	GATGTCAGGC	TCGATGTCAA	180
TGGTCTGGAA	GCGGCGGCTG	TACCTGCGTA	GGGGCACACC	GTCAGGGCCC	ACCAGGAACT	240
TCTCAAAGTT	CCAGGCAACN	TCGTTGCGAC	ACACCGGAGA	CCAGGTGATN	AGCTTGGGGT	300
CGGTCATAAN	CGCGGTGGCG	TCGTCGCTGG	GAGCTGGCAG	GGCCTCCCGC	AGGAAGGCNA	360
ATAAAAGGTG	CGCCCCGCA	CCGTTCANCT	CGCACTTCTC	NAANACCATG	ANGTTGGGCT	420

CNAACCCACC ACCANNCCGG ACTTCCTTGA NGGAATTCCC AAATCTCTTC GNTCTTGGGC TTCTNCTGAT GCCCTANCTG GTTGCCCNGN ATGCCAANCA NCCCCAANCC CCGGGGTCCT AAANCACCCN CCTCCTCNTT TCATCTGGGT TNTTNTCCCC GGACCNTGGT TCCTCTCAAG GGANCCCATA TCTCNACCAN TACTCACCNT NCCCCCCCNT GNNACCCANC CTTCTANNGN TTCCCNCCCG NCCTCTGGCC CNTCAAANAN GCTTNCACNA CCTGGGTCTG CCTTCCCCCC TNCCCTATCT GNACCCNCN TTTGTCTCAN TNT	480 540 600 660 720 753
(2) INFORMATION FOR SEQ ID NO:41:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 341 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:	
ACTATATCCA TCACAACAGA CATGCTTCAT CCCATAGACT TCTTGACATA GCTTCAAATG AGTGAACCCA TCCTTGATTT ATATACATAT ATGTTCTCAG TATTTTGGGA GCCTTTCCAC TTCTTTAAAC CTTGTTCATT ATGAACACTG AAAATAGGAA TTTGTGAAGA GTTAAAAAGT TATAGCTTGT TTACGTAGTA AGTTTTTGAA GTCTACATTC AATCCAGACA CTTAGTTGAG TGTTAAACTG TGATTTTAA AAAATATCAT TTGAGAATAT TCTTTCAGAG GTATTTCAT TTTTACTTTT TGATTAATTG TGTTTTATAT ATTAGGGTAG T	60 120 180 240 300 341
(2) INFORMATION FOR SEQ ID NO:42:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 101 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:	
ACTTACTGAA TTTAGTTCTG TGCTCTTCCT TATTTAGTGT TGTATCATAA ATACTTTGAT GTTTCAAACA TTCTAAATAA ATAATTTTCA GTGGCTTCAT A	60 101
(2) INFORMATION FOR SEQ ID NO:43:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 305 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

(vi) ORIGINAL SOURCE:

(ii) MOLECULE TYPE: cDNA

- (A) ORGANISM: Homo spiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:

ACATCTTTGT	TACAGTCTAA	GATGTGTTCT	TAAATCACCA	TTCCTTCCTG	GTCCTCACCC	60
TCCAGGGTGG	TCTCACACTG	TAATTAGAGC	TATTGAGGAG	TCTTTACAGC	AAATTAAGAT	120
TCAGATGCCT	TGCTAAGTCT	AGAGTTCTAG	AGTTATGTTT	CAGAAAGTCT	AAGAAACCCA	180
CCTCTTGAGA	GGTCAGTAAA	GAGGACTTAA	TATTTCATAT	CTACAAAATG	ACCACAGGAT	240
TGGATACAGA	ACGAGAGTTA	TCCTGGATAA	CTCAGAGCTG	AGTACCTGCC	CGGGGGCCGC	300
TCGAA						305

- (2) INFORMATION FOR SEQ ID NO:44:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 852 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:

ACATAAATAT	CAGAGAAAAG	TAGTCTTTGA	AATATTTACG	TCCAGGAGTT	CTTTGTTTCT	60
GATTATTTGG	TGTGTGTTTT	GGTTTGTGTC	CAAAGTATTG	GCAGCTTCAG	TTTTCATTTT	120
0112	TCGGGCATTC	TTCCCAAATT	TATATACCAG	TCTTCGTCCA	TCCACACGCT	180
CTCTCCATCC		TAATATCTCA	TAGCTCGGCT	GAGCTTTTCA	TAGGTCATGC	240
CCAGAATTTC	TCTTTTGTAG		GAGCCACTGC		AAGAACCTGA	300
TGCTGTTGTT	CTTCTTTTTA		TTAATCCTGG	GTTCTTGTCT	GGGTTCAAGA	360
AGACGCCCTC		TCCCATTTTA		GTTGTGCTTT	TTGGTGTGGC	420
GGATGTCGCG	GATGAATTCC	CATAAGTGAG	TCCCTCTCGG	<b></b>		480
ACTTGGCAGG	GGGGTCTTGC	TCCTTTTTCA	TATCAGGTGA	CTCTGCAACA	•	540
TGGTGGTTGT	CATGGAGATC	TGAGCCCGGC	AGAAAGTTTT			600
TGCTACCATA	GTTGGTGTCA	TATAAATAGT	TCTNGTCTTT			
GCTCAGTTTG	TTCAGTCTTG	ACAATGACAT	TGTGTGTGGA	CTGGAACAGG	TCACTACTGC	660
ACTGGCCGTT	CCACTTCAGA	TGCTGCAAGT	TGCTGTAGAG	GAGNTGCCCC	GCCGTCCCTG	720
CCGCCCGGGT		AAACTCATGC	TGCAAAGGTG	CTCGCCGTTG	ATGTCGAACT	780
CNTGGAAAGG	GATACAATTG		GGTTGGTGTC	CAGGAGGTGA	TGGAGCCACT	840
0111001		001120				852
CCCACACCTG	Gı					

- (2) INFORMATION FOR SEQ ID NO:45:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 234 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

AGTCTGACAC	CATCCGGAGC	ATCAGCATTG	CTTCGCAGTG	CCCTACCGCG	GGGAACTCTT	120
GCCTCGTTTC	TGGCTGGGGT	CTGCTGGCGA	ACGGCAGAAT	GCCTACCGTG	CTGCAGTGCG	180
TGAACGTGTC	GGTGGTGTCT	GAGGAGGTCT	GCAGTAAGCT	CTATGACCCG	CTGT	234

- (2) INFORMATION FOR SEQ ID NO:46:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 590 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:

> c=======		TAAGGCAGAT	СТАТСАСААТ	GATAGAAAAC	ATGGTGTGTA	60
ACTITITATI	TAAAIGIIIA	AGATTACAGA	GTTTTAGTAA	TTACCAATTA	CACAGTTAAA	120
ATTTGATAGC	AATATTTIGG	GCANATACAA	ΤΔΑΤΌΤΑΤΛ	GAAAGATCAA	GGCAGGAAAA	180
AAGAAGATAA	TATATTCCAA	TGGAAAATCA	ለጥጥጥጥለ ልጥርጥ	GAATTGCACA	TTATCCTTTA	240
TGANTATAAC	TAATTGACAA	TTATTGCAGT	CTANTTANTOI	CAAACAGTGT	TAAATGGTAT	300
AAAGCTTTCA	AAANAAANAA	CANAAAGAAT	CIMMIIAAII	TTCATGTAAC	NCACCCANAT	360
CAGGATAAAN	AACTGAAGGG	GGAAAAAGCA	CTCCAACTAC	GGAAGTANTC	AAGGTCTTTC	420
TTACAATGGC	TTAAATGCAN	GGAAAAAGCA	GIGGAAGIAG maaammaa	CCTCTCGAGA	CAGCTGCCAG	480
TGGTCTCTAA	TCTGCCTTAC	TCTTTGGGTG	TGGCTTTGAT	COTCIOCAGN	GACACATGCT	540
GGCTCCTGTT	ATATCCACAA	TCCCAGCAGC	AAGATGAAGG	ACTICACATION	OACHCIIICOI	590
GCCTTCCTTT	GAGGAGACTT	CATCTCACTG	GCCAACACTC	AGICACAIGI		-

- (2) INFORMATION FOR SEQ ID NO:47:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 774 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:

		AGTGGGGANA	ር አጥጥጥጥ አ አ አር	AAGGAAAAA	AACGAGGCCC	60
			GAIIIIAAAG	TTCTTGGGGA	CCTTCAAGAC	120
		71100000				180
GCTTCACTGC	TTGAAACTTA			TTCTGTAATG		240
CATTACAGAC	GGGACTCTGG	GAGGAAGGAT	AAACAGAAAG	GGGACAAAGG	CTAATCCCAA	
CATTACADAC	AAACCAACCT	GGCGTCATAC	CTCCCAGCCT	ACACAGTTCT	CCAGGGCTCT	300
AACATCAAAG	AAAGGAAGGI	AGTGGAGGAA	CAACTGACCA	TGTCCCCAGG	CTCCTGTGTG	360
CCTCATCCCT	GGAGGACGAC	AGTGGAGGAA	CAACIGACCA	CHCHCCTCAT	ССТСССТССС	420
CTGGCTCCTG	GTCTTCAGCC	CCCAGCTCTG	GAAGCCCACC	CTCTGCTGAT	2 COMOCOTO TO	480
CCACACTCCT	TGAACACACA	TCCCCAGGTT	ATATTCCTGG	ACATGGCTGA	ACCTCCTATT	
OCHA CHTCCC	A C A T C C C T T C	CTCCCTGCAG	CCTGTCAAAA	TCCCACTCAC	CCTCCAAACC	540
CCIACITCCG	AGAIGCCIIG	GACTTGCCTG	አጥጥልሮጥሮሮ <b>ል</b> G	CATCTTGGAA	CAATCCCTGA	600
ACGGCATGGG	AAGCCTTTCT	GACTIGCCIG	ATTACTOON	CCCCTCGACC	ACTTGGAGCC	660
TTCCCCACTC	CTTAGAGGCA	AGATAGGGTG	GTTAAGAGTA	GGGCIGGACC	ACTION AUCT	720
AGGCTGCTGG	CTTCAAATTN				CAAGTNATCT	
TCACTTCTAT	CCCCNTCATT	TTGTTCTACC	TGCAAAATGG	GGGATAATAA	TAGT	774
ICMCITCIAL	OGGCHIONI +					

(2) INFORMATION FOR SEQ ID NO:48:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 124 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:	
CANAAATTGA AATTTTATAA AAAGGCATTT TTCTCTTATA TCCATAAAAT GATATAATTT TTGCAANTAT ANAAATGTGT CATAAATTAT AATGTTCCTT AATTACAGCT CAACGCAACT TGGT	60 120 124
(2) INFORMATION FOR SEQ ID NO:49:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 147 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:	
GCCGATGCTA CTATTTTATT GCAGGAGGTG GGGGTGTTTT TATTATTCTC TCAACAGCTT TGTGGCTACA GGTGGTGTCT GACTGCATNA AAAANTTTTT TACGGGTGAT TGCAAAAATT TTAGGGCACC CATATCCCAA GCANTGT	60 120 147
(2) INFORMATION FOR SEQ ID NO:50:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 107 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:	
ACATTAAATT AATAAAAGGA CTGTTGGGGT TCTGCTAAAA CACATGGCTT GATATATTGC ATGGTTTGAG GTTAGGAGGA GTTAGGCATA TGTTTTGGGA GAGGGGT	60 107
(2) INFORMATION FOR SEO ID NO:51:	

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:51: GTCCTAGGAA GTCTAGGGGA CACACGACTC TGGGGTCACG GGGCCGACAC ACTTGCACGG CGGGAAGGAA AGGCAGAGAA GTGACACCGT CAGGGGGAAA TGACAGAAAG GAAAATCAAG 120 GCCTTGCAAG GTCAGAAAGG GGACTCAGGG CTTCCACCAC AGCCCTGCCC CACTTGGCCA 180 204 CCTCCCTTTT GGGACCAGCA ATGT (2) INFORMATION FOR SEQ ID NO:52: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 491 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:52: ACAAAGATAA CATTTATCTT ATAACAAAAA TTTGATAGTT TTAAAGGTTA GTATTGTGTA 60 GGGTATTTTC CAAAAGACTA AAGAGATAAC TCAGGTAAAA AGTTAGAAAT GTATAAAACA 120 CCATCAGACA GGTTTTTAAA AAACAACATA TTACAAAATT AGACAATCAT CCTTAAAAAA 180 AAAACTTCTT GTATCAATTT CTTTTGTTCA AAATGACTGA CTTAANTATT TTTAAATATT 240 TCANAAACAC TTCCTCAAAA ATTTTCAANA TGGTAGCTTT CANATGTNCC CTCAGTCCCA 300 ATGTTGCTCA GATAAATAAA TCTCGTGAGA ACTTACCACC CACCACAAGC TTTCTGGGGC 360 ATGCAACAGT GTCTTTTCTT TNCTTTTTCT TTTTTTTTT TTACAGGCAC AGAAACTCAT 420 CAATTTTATT TGGATAACAA AGGGTCTCCA AATTATATTG AAAAATAAAT CCAAGTTAAT

480 491

(2) INFORMATION FOR SEQ ID NO:53:

ATCACTCTTG T

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 484 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:

ACATAATTTA GCAGGGCTAA TTACCATAAG ATGCTATTTA TTAANAGGTN TATGATCTGA GTATTAACAG TTGCTGAAGT TTGGTATTTT TATGCAGCAT TTTCTTTTTG CTTTGATAAC ACTACAGAAC CCTTAAGGAC ACTGAAAATT AGTAAGTAAA GTTCAGAAAC ATTAGCTGCT CAATCAAATC TCTACATAAC ACTATAGTAA TTAAAACGTT AAAAAAAAGT GTTGAAATCT GCACTAGTAT ANACCGCTCC TGTCAGGATA ANACTGCTTT GGAACAGAAA GGGAAAAANC AGCTTTGANT TTCTTTGTGC TGATANGAGG AAAGGCTGAA TTACCTTGTT GCCTCTCCCT AATGATTGGC AGGTCNGGTA AATNCCAAAA CATATTCCAA CTCAACACTT CTTTTCCNCG TANCTTGANT CTGTGTATTC CAGGANCAGG CGGATGGAAT GGGCCAGCCC NCGGATGTTC CANT	60 120 180 240 300 360 420 480 484
(2) INFORMATION FOR SEQ ID NO:54:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 151 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:	
ACTAAACCTC GTGCTTGTGA ACTCCATACA GAAAACGGTG CCATCCCTGA ACACGGCTGG CCACTGGGTA TACTGCTGAC AACCGCAACA ACAAAAACAC AAATCCTTGG CACTGGCTAG TCTATGTCCT CTCAAGTGCC TTTTTGTTTG T	60 120 151
(2) INFORMATION FOR SEQ ID NO:55:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 91 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:	
ACCTGGCTTG TCTCCGGGTG GTTCCCGGCG CCCCCACGG TCCCCAGAAC GGACACTTTC GCCCTCCAGT GGATACTCGA GCCAAAGTGG T	60 91
(2) INFORMATION FOR SEQ ID NO:56:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 133 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	

<pre>(vi) ORIGINAL SOURCE:    (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:	
GGCGGATGTG CGTTGGTTAT ATACAAATAT GTCATTTTAT GTAAGGGACT TGAGTATACT TGGATTTTTG GTATCTGTGG GTTGGGGGGA CGGTCCAGGA ACCAATACCC CATGGATACC AAGGGACAAC TGT	60 120 133
(2) INFORMATION FOR SEQ ID NO:57:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 147 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:	
ACTCTGGAGA ACCTGAGCCG CTGCTCCGCC TCTGGGATGA GGTGATGCAN GCNGTGGCGC GACTGGGAGC TGAGCCCTTC CCTTTGCGCC TGCCTCAGAG GATTGTTGCC GACNTGCANA TCTCANTGGG CTGGATNCAT GCAGGGT	60 120 147
(2) INFORMATION FOR SEQ ID NO:58:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 198 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:      (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:	
ACAGGGATAT AGGTTTNAAG TTATTGTNAT TGTAAAATAC ATTGAATTTT CTGTATACTC TGATTACATA CATTTATCCT TTAAAAAAGA TGTAAATCTT AATTTTTATG CCATCTATTA ATTTACCAAT GAGTTACCTT GTAAATGAGA AGTCATGATA GCACTGAATT TTAACTAGTT TTGACTTCTA AGTTTGGT	60 120 180 198
(2) INFORMATION FOR SEQ ID NO:59:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 330 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: CDNA	

<pre>(vi) ORIGINAL SOURCE:    (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:	
ACAACAAATG GGTTGTGAGG AAGTCTTATC AGCAAAACTG GTGATGGCTA CTGAAAAGAT CCATTGAAAA TTATCATTAA TGATTTAAA TGACAAGTTA TCAAAAACTC ACTCAATTTT CACCTGTGCT AGCTTGCTAA AATGGGAGTT AACTCTAGAG CAAATATAGT ATCTTCTGAA CAGAAGGAAT CTATTTTATC ACATGGATCT ACATGGATCT CCGTCTGTG TCAAAAATACC TAATGATATT TTTCGTCTTT ATTGGACTTC TTTGAAGAGT	60 120 180 240 300 330
(2) INFORMATION FOR SEQ ID NO:60:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 175 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	
ACCGTGGGTG CCTTCTACAT TCCTGACGGC TCCTTCACCA ACATCTGGTT CTACTTCGGC GTCGTGGGCT CCTTCCTCTT CATCCTCATC CAGCTGGTGC TGCTCATCGA CTTTGCGCAC TCCTGGAACC AGCGGTGGCT GGGCAAGGCC GAGGAGTGCG ATTCCCGTGC CTGGT	60 120 175
(2) INFORMATION FOR SEQ ID NO:61:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 154 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:	
ACCCCACTTT TCCTCCTGTG AGCAGTCTGG ACTTCTCACT GCTACATGAT GAGGGTGAGT GGTTGTTGCT CTTCAACAGT ATCCTCCCCT TTCCGGATCT GCTGAGCCGG ACAGCAGTGC TGGACTGCAC AGCCCCGGGG CTCCACATTG CTGT	60 120 154
(2) INFORMATION FOR SEQ ID NO:62:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 30 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:    (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:	
CGCTCGAGCC CTATAGTGAG TCGTATTAGA	0
(2) INFORMATION FOR SEQ ID NO:63:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 89 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:	
ACARCHORUM TORCACO TO THE CONTINUE ARACHGACCA ICILIANA INTERNITURE	60 89
(2) INFORMATION FOR SEQ ID NO:64:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 97 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<ul><li>(vi) ORIGINAL SOURCE:</li><li>(A) ORGANISM: Homo sapiens</li></ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:	
	60 97
(2) INFORMATION FOR SEQ ID NO:65:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 377 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:

ACAACAANAA	NTCCCTTCTT	TAGGCCACTG	ATGGAAACCT	GGAACCCCCT	TTTGATGGCA	60
GCATGGCGTC	CTAGGCCTTG	ACACAGCGGC	TGGGGTTTGG	GCTNTCCCAA	ACCGCACACC	120
CCAACCCTGG	TCTACCCACA	NTTCTGGCTA	TGGGCTGTCT	CTGCCACTGA	ACATCAGGGT	180
TCGGTCATAA	NATGAAATCC	CAANGGGGAC	AGAGGTCAGT	AGAGGAAGCT	CAATGAGAAA	240
GGTGCTGTTT	GCTCAGCCAG	AAAACAGCTG	CCTGGCATTC	GCCGCTGAAC	TATGAACCCG	300
TGGGGGTGAA	CTACCCCCAN	GAGGAATCAT	GCCTGGGCGA	TGCAANGGTG	CCAACAGGAG	360
GGGCGGGAGG						377

- (2) INFORMATION FOR SEQ ID NO:66:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 305 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:

x cccccrrrrcc	CTCAGAATTC	AGGGAAGAGA	CTGTCGCCTG	CCTTCCTCCG	TTGTTGCGTG	60
ACGCCTTTCC	TCCCCCTTCC	CACCATATCC	ACCCTCGCTC	CATCTTTGAA	CTCAAACACG	120
AGAACCCGIG	TGCCCCTTCC	TOUTOTOUT	AGTCCCCAGT	TCACCCTCCA	TCCCTCACCT	180
AGGAACTAAC	TGCACCCIGG	CAACACTCCC	CAGCACAGGG	GCCCTGAATT	TATGTGGTTT	240
TCCTCCACTC	TAAGGGATAT	TAACAC I GCC	CHCATTTTT	ΔΑΤΔΔΑΓΓΟΤ	GAAGAATTAC	300
TTATATATTT	TTTAATAAGA	TGCACTTTAL	GICATITIT	AMIAMOTOI	01210121-111	305
TGTTT						

- (2) INFORMATION FOR SEQ ID NO:67:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 385 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:

ACTACACACA C	тесаеттес	CCTTGTGAGA	CACTTTGTCC	CAGCACTTTA	GGAATGCTGA	60
GGTCGGACCA G	CCACATCTC	ATGTGCAAGA	TTGCCCAGCA	GACATCAGGT	CTGAGAGTTC	120
CCCTTTTAAA AA	DORCATOR	ΤΩΟΤΟΣΙΣΙΟΙΙ	AGAAGTCTAG	CCACGATTGT	GTAGAGCAGC	180
TGTGCTGTGC TG	AAGGGGACI	CTTTTCACAC	AGTTCTCCTC	TGAGACCTGA	TCTTTAGAGG	240
CTGGGCAGTC T	GGAGATICA TOGRADATION	CATTCCCCCCTC	CTCTGATCTC	AGCACTCCTT	AGTCTGCTTG	300
CTGGGCAGTC T	TGCACATGA	TOTOGOGO TO	TCCTTACAGG	GCACTCTCAG	ATGCCCATAC	360
			IGCTIACAGO	ocher cre		385
CATAGTTTCT G'	TGCTAGTGG	ACCGT				

- (2) INFORMATION FOR SEQ ID NO:68:
  - (i) SEQUENCE CHARACTERISTICS:

<ul><li>(A) LENGTH: 73 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:	
ACTTAACCAG ATATATTTTT ACCCCAGATG GGGATATTCT TTGTAAAAAA TGAAAATAAA GTTTTTTTAA TGG	60 73
(2) INFORMATION FOR SEQ ID NO:69:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 536 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:	
ACTAGTCCAG TGTGGTGGAA TTCCATTGTG TTGGGGGCTC TCACCCTCT CTCCTGCAGC TCCAGCTTTG TGCTCTGCCT CTGAGGAGAC CATGGCCCAG CATCTGAGTA CCCTGCTGCT CCTGCTGGCC ACCCTAGCTG TGGCCCTGGC CTGGAGCCCC AAGGAGGAGG ATAGGATAAT CCCGGGTGGC ATCTATAACG CAGACCTCAA TGATGAGTGG GTACAGCGTG CCCTTCACTT CGCCATCAGC GAGTATAACA AGGCCACCAA AGATGACTAC TACAGACGTC CGCTGCGGGT ACTAAGAGCC AGGCAACAGA CCGTTGGGGG GGTGAATTAC TTCTTCGACG TAGAGGTGGG CCGAACCATA TGTACCAAGT CCCAGCCCAA CTTGGACACC TGTGCCTTCC ATGAACAGC AGAACTGCAG AAGAAACAGT TGTGCTCTTT CGAGATCTAC GAAGTTCCCT GGGGAGAACA GAANGTCCCT GGGTGAAATC CAGGTGTCAA GAAATCCTAN GGATCTGTTG CCAGGC	60 120 180 240 300 360 420 480 536
(2) INFORMATION FOR SEQ ID NO:70:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 477 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:	
ATGACCCCTA ACAGGGGCCC TCTCAGCCCT CCTAATGACC TCCGGCCTAG CCATGTGATT TCACTTCCAC TCCATAACGC TCCTCATACT AGGCCTACTA ACCAACACAC TAACCATATA CCAATGATGG CGCGATGTAA CACGAGAAAG CACATACCAA GGCCACCACA CACCACCTGT	60 120 180

CCAAAAAGGC	CTTCGATACG	GGATAATCCT	ATTTATTACC	TCAGAAGTTT	TTTTCTTCGC	240
AGGGATTTTT	CTGAGCCTTT	TACCACTCCA	GCCTAGCCCC	TACCCCCCAA	CTAGGAGGGC	300
ACTGGCCCCC	AACAGGCATC	ACCCCGCTAA	ATCCCCTAGA	AGTCCCACTC	CTAAACACAT	360
CCGTATTACT	CGCATCAGGA	GTATCAATCA	CCTGAGCTCA	CCATAGTCTA	ATAGAAAACA	420
ACCGAAACCA	AATTATTCAA	AGCACTGCTT	ATTACAATTT	TACTGGGTCT	CTATTTT	477

- (2) INFORMATION FOR SEQ ID NO:71:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 533 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:

AGAGCTATAG	GTACAGTGTG	ATCTCAGCTT	TGCAAACACA	TTTTCTACAT	AGATAGTACT	60
AGGTATTAAT	AGATATGTAA	AGAAAGAAAT	CACACCATTA	ATAATGGTAA	GATTGGTTTA	120
TGTGATTTTA	GTGGTATTTT	TGGCACCCTT	ATATATGTTT	TCCAAACTTT	CAGCAGTGAT	180
ATTATTTCCA	TAACTTAAAA	AGTGAGTTTG	AAAAAGAAAA	TCTCCAGCAA	GCATCTCATT	240
TAAATAAAGG	TTTGTCATCT	TTAAAAATAC	AGCAATATGT	GACTTTTTAA	AAAAGCTGTC	300
AAATAGGTGT	GACCCTACTA	ATAATTATTA	GAAATACATT	TAAAAACATC	GAGTACCTCA	360
		TATCAAATAT				420
		AGGTTCCCTC				480
TAAAAAAAAA	AATTCACAAC	AGTATATAAG	GCTGTAAAAT	GAAGAATTCT	GCC	533

- (2) INFORMATION FOR SEQ ID NO:72:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 511 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:

TATTACGGAA	AAACACACCA	CATAATTCAA	CTANCAAAGA	ANACTGCTTC	AGGGCGTGTA	60
AAATGAAAGG	CTTCCAGGCA	GTTATCTGAT	TAAAGAACAC	TAAAAGAGGG	ACAAGGCTAA	120
AAGCCGCAGG	ATGTCTACAC	TATANCAGGC	GCTATTTGGG	TTGGCTGGAG	GAGCTGTGGA	180
AAACATGGAN	AGATTGGTGC	TGGANATCGC	CGTGGCTATT	CCTCATTGTT	ATTACANAGT	240
GAGGTTCTCT	GTGTGCCCAC	TGGTTTGAAA	ACCGTTCTNC	AATAATGATA	GAATAGTACA	300
		CCAAACCCAG				360
		ATGAAGAAAA				420
ATTTCTCTCC	ATTGCAGCNA	NAAACCCGTT	CTTCTAAGCA	AACNCAGGTG	ATGATGGCNA	480
AAATACACCC	CCTCTTGAAG	NACCNGGAGG	A			511

(2) INFORMATION FOR SEQ ID NO:73:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 499 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:

CAGTGCCAGC	ACTGGTGCCA	GTACCAGTAC	CAATAACAGT	GCCAGTGCCA	GTGCCAGCAC	60
CAGTGGTGGC	TTCAGTGCTG	GTGCCAGCCT	GACCGCCACT	CTCACATTTG	GGCTCTTCGC	120
						180
						240
CTCAGAAACC	TACTCAACAC	AGCACTCTAG	GCAGCCACTA	TCAATCAATT	GAAGTTGACA	300
CTCTGCATTA	AATCTATTTG	CCATTTCTGA	AAAAAAAAA	AAAAAAAGGG	CGGCCGCTCG	360
ANTCTAGAGG	GCCCGTTTAA	ACCCGCTGAT	CAGCCTCGAC	TGTGCCTTCT	ANTTGCCAGC	420
CATCTGTTGT	TTGCCCCTCC	CCCGNTGCCT	TCCTTGACCC	TGGAAAGTGC	CACTCCCACT	480
GTCCTTTCCT	TAAAAT					499
	CAGTGGTGGC TGGCCTTGGT CAAGTGAGAT CTCAGAAACC CTCTGCATTA ANTCTAGAGG CATCTGTTGT	CAGTGGTGGC TTCAGTGCTG TGGCCTTGGT GGAGCTGGTG CAAGTGAGAT TTTAGATATT CTCAGAAACC TACTCAACAC CTCTGCATTA AATCTATTTG ANTCTAGAGG GCCCGTTTAA	CAGTGGTGGC TTCAGTGCTG GTGCCAGCCT TGGCCTTGGT GGAGCTGGTG CCAGCACCAG CAAGTGAGAT TTTAGATATT GTTAATCCTG CTCAGAAACC TACTCAACAC AGCACTCTAG CTCTGCATTA AATCTATTTG CCATTTCTGA ANTCTAGAGG GCCCGTTTAA ACCCGCTGAT CATCTGTTGT TTGCCCCTC CCCGNTGCCT	CAGTGGTGGC TTCAGTGCTG GTGCCAGCT GACCGCCACT TGGCCTTGGT GGAGCTGGTG CCAGCACCAG TGGCAGCTCT CAAGTGAGAT TTTAGATATT GTTAATCCTG CCAGTCTTTC CTCAGAAACC TACTCAACAC AGCACTCTAG GCAGCCACTA CTCTGCATTA AATCTATTG CCATTTCTGA AAAAAAAAAA	CAGTGGTGGC TTCAGTGCTG GTGCCAGCCT GACCGCCACT CTCACATTTG TGGCCTTGGT GGAGCTGGTG CCAGCACCAG TGGCAGCTCT GGTGCCTGTG CAAGTGAGAA TTTAGATATT GTTAATCCTG CCAGTCTTC TCTTCAAGCC CTCAGAAACC TACTCAACAC AGCACTCTAG GCAGCCACTA TCAATCAATT CTCTGCATTA AATCTATTTG CCATTTCTGA AAAAAAAAA AAAAAAAGGG ANTCTAGAGG GCCCGTTTAA ACCCGCTGAT CAGCCTCGAC TGTGCCTTCT CATCTGTTGT TTGCCCCTCC CCCGNTGCCT TCCTTGACCC TGGAAAGTGC	CAGTGCCAGC ACTGGTGCCA GTACCAGTAC CAATAACAGT GCCAGTGCCA GTGCCAGCAC CAGTGGTGGC TTCAGTGGTG GTGCCAGCAC GACCGCCACT CTCACATTTG GGCTCTTCGC TGGCCTTGGT GGAGCTGGTG CCAGCACCAG TGGCAGCTCT GGTGCCTGTG GTTTCTCCTA CAAGTGAGAACC TACTCAACAC AGCACTCTAG GCAGCCACTA TCAATCAATT GAAGTTGACA CTCTGCATTA AATCTATTTG CCATTTCTGA AAAAAAAAAA

- (2) INFORMATION FOR SEQ ID NO:74:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 537 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:

TTTCATAGGA	GAACACACTG	AGGAGATACT	TGAAGAATTT	GGATTCAGCC	GCGAAGAGAT	60
TTATCAGCTT	AACTCAGATA	AAATCATTGA	AAGTAATAAG	GTAAAAGCTA	GTCTCTAACT	120
TCCAGGCCCA	CGGCTCAAGT	GAATTTGAAT	ACTGCATTTA	CAGTGTAGAG	TAACACATAA	180
CATTGTATGC	ATGGAAACAT	GGAGGAACAG	TATTACAGTG	TCCTACCACT	CTAATCAAGA	240
AAAGAATTAC	AGACTCTGAT	TCTACAGTGA	TGATTGAATT	CTAAAAATGG	TAATCATTAG	300
		TTGGGTACTT				360
CAGTTTGCTT	GATATATTTG	TTGATATTAA	GATTCTTGAC	TTATATTTTG	AATGGGTTCT	420
		TTCTTGAAGA				480
		GGAAATGCCC				537

- (2) INFORMATION FOR SEQ ID NO:75:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 467 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:

CAAANACAAT	TGTTCAAAAG	ATGCAAATGA	TACACTACTG	CTGCAGCTCA	CAAACACCTC	60
TGCATATTAC	ACGTACCTCC	TCCTGCTCCT	CAAGTAGTGT	GGTCTATTTT	GCCATCATCA	120
CCTGCTGTCT	GCTTAGAAGA	ACGGCTTTCT	GCTGCAANGG	AGAGAAATCA	TAACAGACGG	180
TGGCACAAGG	AGGCCATCTT	TTCCTCATCG	GTTATTGTCC	CTAGAAGCGT	CTTCTGAGGA	240
TCTAGTTGGG	CTTTCTTTCT	GGGTTTGGGC	CATTTCANTT	CTCATGTGTG	TACTATTCTA	300
TCATTATTGT	ATAACGGTTT	TCAAACCNGT	GGGCACNCAG	AGAACCTCAC	TCTGTAATAA	360
CAATGAGGAA	TAGCCACGGT	GATCTCCAGC	ACCAAATCTC	TCCATGTTNT	TCCAGAGCTC	420
CTCCAGCCAA	CCCAAATAGC	CGCTGCTATN	GTGTAGAACA	TCCCTGN		467

- (2) INFORMATION FOR SEQ ID NO:76:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:

AAGCTGACAG	CATTCGGGCC	GAGATGTCTC	GCTCCGTGGC	CTTAGCTGTG	CTCGCGCTAC	60
TCTCTCTTTC	TGGCCTGGAG	GCTATCCAGC	GTACTCCAAA	GATTCAGGTT	TACTCACGTC	120
ATCCAGCAGA	GAATGGAAAG	TCAAATTTCC	TGAATTGCTA	TGTGTCTGGG	TTTCATCCAT	180
CCGACATTGA	AGTTGACTTA	CTGAAGAATG	GAGAGAGAAT	TGAAAAAGTG	GAGCATTCAG	240
		TGGTCTTTCT				300
CTGAAAAAGA	TGAGTATGCC	TGCCGTGTGA	ACCATGTGAC	TTTGTCACAG	CCCAAGATNG	360
TTNAGTGGGA	TCGANACATG	TAAGCAGCAN	CATGGGAGGT			400

- (2) INFORMATION FOR SEQ ID NO:77:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 248 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo Sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:

CTGGAGTGCC	TTGGTGTTTC	AAGCCCCTGC	AGGAAGCAGA	ATGCACCTTC	TGAGGCACCT	60
CCAGCTGCCC	CGGCGGGGGA	TGCGAGGCTC	GGAGCACCCT	TGCCCGGCTG	TGATTGCTGC	120
CAGGCACTGT	TCATCTCAGC	TTTTCTGTCC	CTTTGCTCCC	GGCAAGCGCT	TCTGCTGAAA	180
		GTCTTAACGA				240
AAAAAAA						248

### (2) INFORMATION FOR SEQ ID NO:78:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 201 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:

ACTAGTCCAG TGTGGTGGAA	TTCCATTGTG	TTGGGCCCAA	CACAATGGCT	ACCTTTAACA	60
TCACCCAGAC CCCGCCCTGC					120
TCTGCTACTC GGAAACTATT	TTTATGTAAT	TAATGTATGC	TTTCTTGTTT	ATAAATGCCT	180
GATTTAAAAA AAAAAAAAAA					201

- (2) INFORMATION FOR SEQ ID NO:79:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 552 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:

тССттттСтт	∆GGTTTTTGA	GACAACCCTA	GACCTAAACT	GTGTCACAGA	CTTCTGAATG	60
TUTTACCOACT	CCTACTAATT	TCCTCGTAAT	GATTCTGTTA	${\tt TTACTTTCCT}$	ATTCTTTATT	120
CCTCTTTCTT	CTCAACATTA	ΔΤGΔΔGTTGΔ	AAATTGAGGT	GGATAAATAC	AAAAAGGTAG	180
CCICIIICII	CIGAAGAIIA	ACTOCAGATG	ΔΔΔGTGTGTT	ATATATATCC	ATTCAAAATT	240
TGTGATAGTA	CHARGIAICIA	ACCCTTAACT	ΑΑΑΤΤΑΟΤΟΤΤ	AATATGCTGT	TGAACCTACT	300
ATGCAAGTTA	GTAATTACIC	AGGGIIAACI	CCACTTTCTT	AGTTTGGGAA	GCCAAATTGA	360
CTGTTCCTTG	GCTAGAAAAA	ATTATAAACA	ACATAAANTA	TNAAGAAATA	ТССААТТТТА	420
TAATATTCTA	TGTTCTAAAA	GTTGGGCTAT	ACATAAANTA	INAAGAAAIA	TCANTNAAAC	480
TTCCCAGGAA	TATGGGGTTC	ATTTATGAAT	ANTACCCGGG	ANAGAAGTTT	TOMITONANA	540
CNGTTTTGGT	TAATACGTTA	ATATGTCCTN	AATNAACAAG	GCNTGACTTA	ITICCAAAAA	552
AAAAAAAAA	AA					352

- (2) INFORMATION FOR SEQ ID NO:80:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 476 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:

ACAGGGATTT	GAGATGCTAA	GGCCCCAGAG	ATCGTTTGAT	CCAACCCTCT	TATTTTCAGA	60
GGGGAAAATG	GGGCCTAGAA	GTTACAGAGC	ATCTAGCTGG	TGCGCTGGCA	CCCCTGGCCT	120
CACACAGACT	CCCGAGTAGC	TGGGACTACA	GGCACACAGT	CACTGAAGCA	GGCCCTGTTT	180
GCAATTCACG	TTGCCACCTC	CAACTTAAAC	ATTCTTCATA	TGTGATGTCC	TTAGTCACTA	240
AGGTTAAACT	TTCCCACCCA	GAAAAGGCAA	CTTAGATAAA	ATCTTAGAGT	ACTTTCATAC	300
TCTTCTAAGT	CCTCTTCCAG	CCTCACTTTG	AGTCCTCCTT	GGGGGTTGAT	AGGAANTNTC	360
TCTTGGCTTT	CTCAATAAAA	TCTCTATCCA	TCTCATGTTT	AATTTGGTAC	GCNTAAAAAT	420
GCTGAAAAAA	TTAAAATGTT	CTGGTTTCNC	TTTAAAAAAA	AAAAAAAAA	AAAAA	476

### (2) INFORMATION FOR SEQ ID NO:81:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 232 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:

TTTTTTTTG	TATGCCNTCN	CTGTGGNGTT	ATTGTTGCTG	CCACCCTGGA	GGAGCCCAGT	60
TTCTTCTGTA	TCTTTCTTTT	CTGGGGGATC	TTCCTGGCTC	TGCCCCTCCA	TTCCCAGCCT	120
CTCATCCCCA	TCTTGCACTT	TTGCTAGGGT	TGGAGGCGCT	TTCCTGGTAG	CCCCTCAGAG	180
ACTCAGTCAG	CGGGAATAAG	TCCTAGGGGT	GGGGGGTGTG	GCAAGCCGGC	CT	232

- (2) INFORMATION FOR SEQ ID NO:82:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 383 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:

AGGCGGGAGC	AGAAGCTAAA	GCCAAAGCCC	AAGAAGAGTG	GCAGTGCCAG	CACTGGTGCC	60
AGTACCAGTA	CCAATAACAT	GCCAGTGCCA	GTGCCAGCAC	CAGTGGTGGC	TTCAGTGCTG	120
GTGCCAGCCT	GACCGCCACT	CTCACATTTG	GGCTCTTCGC	TGGCCTTGGT	GGAGCTGGTG	180
CCAGCACCAG	TGGCAGCTCT	GGTGCCTGTG	GTTTCTCCTA	CAAGTGAGAT	TTTAGATATT	240
GTTAATCCTG	CCAGTCTTTC	TCTTCAAGCC	AGGGTGCATC	CTCAGAAACC	TACTCAACAC	300
AGCACTCTNG	GCAGCCACTA	TCAATCAATT	GAAGTTGACA	CTCTGCATTA	AATCTATTTG	360
CCATTTCAAA	ААААААААА	AAA				383

- (2) INFORMATION FOR SEQ ID NO:83:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 494 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:

ACCGAATTGG GACCGCTGGC TTATAAGCGA TCATGTCCTC CAGTATTACC TCAACGAGCA 60 GGGAGATCGA GTCTATACGC TGAAGAAATT TGACCCGATG GGACAACAGA CCTGCTCAGC 120 180 CCATCCTGCT CGGTTCTCCC CAGATGACAA ATACTCTCGA CACCGAATCA CCATCAAGAA ACGCTTCAAG GTGCTCATGA CCCAGCAACC GCGCCCTGTC CTCTGAGGGT CCTTAAACTG 240 ATGTCTTTTC TGCCACCTGT TACCCCTCGG AGACTCCGTA ACCAAACTCT TCGGACTGTG 300 AGCCCTGATG CCTTTTTGCC AGCCATACTC TTTGGCNTCC AGTCTCTCGT GGCGATTGAT 360 TATGCTTGTG TGAGGCAATC ATGGTGGCAT CACCCATNAA GGGAACACAT TTGANTTTTT 420 480 TTTCNCATAT TTTAAATTAC NACCAGAATA NTTCAGAATA AATGAATTGA AAAACTCTTA 494 ΑΑΑΑ ΑΑΑΑΑΑΑ

- (2) INFORMATION FOR SEQ ID NO:84:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 380 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:

GCTGGTAGCC	TATGGCGTGG	CCACGGANGG	GCTCCTGAGG	CACGGGACAG	TGACTTCCCA	60
AGTATCCTGC	GCCGCGTCTT	CTACCGTCCC	TACCTGCAGA	TCTTCGGGCA	GATTCCCCAG	120
GAGGACATGG	ACGTGGCCCT	CATGGAGCAC	AGCAACTGCT	CGTCGGAGCC	CGGCTTCTGG	180
	CTGGGGCCCA					240
	TCGTCATCTT					300
	TTACACATTC					360
	CCTCATCCGG					380

- (2) INFORMATION FOR SEQ ID NO:85:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 481 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:

GAGTTAGCTC CTCCACAACC	TTGATGAGGT	CGTCTGCAGT	GGCCTCTCGC	TTCATACCGC	60
TNCCATCGTC ATACTGTAGG	TTTGCCACCA	CCTCCTGCAT	CTTGGGGCGG	CTAATATCCA	120
GGAAACTCTC AATCAAGTCA					180
TGTGAAAGGA TCTCCAGAAG	GAGTGCTCGA	TCTTCCCCAC	ACTTTTGATG	ACTTTATTGA	240
GTCGATTCTG CATGTCCAGC	AGGAGGTTGT	ACCAGCTCTC	TGACAGTGAG	GTCACCAGCC	300
CTATCATGCC NTTGAACGTG	CCGAAGAACA	CCGAGCCTTG	TGTGGGGGGT	GNAGTCTCAC	360
CCAGATTCTG CATTACCAGA	NAGCCGTGGC	AAAAGANATT	GACAACTCGC	CCAGGNNGAA	420
AAAGAACACC TCCTGGAAGT	GCTNGCCGCT	CCTCGTCCNT	TGGTGGNNGC	GCNTNCCTTT	480
T					481

- (2) INFORMATION FOR SEQ ID NO:86:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 472 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:

AACATCTTCC	TGTATAATGC	TGTGTAATAT	CGATCCGATN	TTGTCTGCTG	AGAATTCATT	60
ACTTGGAAAA	GCAACTTNAA	GCCTGGACAC	TGGTATTAAA	ATTCACAATA	TGCAACACTT	120
TAAACAGTGT	GTCAATCTGC	TCCCTTACTT	TGTCATCACC	AGTCTGGGAA	TAAGGGTATG	180
CCCTATTCAC	ACCTGTTAAA	AGGGCGCTAA	GCATTTTTGA	TTCAACATCT	TTTTTTTGA	240
CACAAGTCCG	AAAAAAGCAA	AAGTAAACAG	TTNTTAATTT	${\tt GTTAGCCAAT}$	TCACTTTCTT	300
CATGGGACAG	AGCCATTTGA	TTTAAAAAGC	AAATTGCATA	ATATTGAGCT	TTGGGAGCTG	360
ATATNTGAGC	GGAAGANTAG	CCTTTCTACT	TCACCAGACA	CAACTCCTTT	CATATTGGGA	420
TGTTNACNAA	AGTTATGTCT	CTTACAGATG	GGATGCTTTT	GTGGCAATTC	TG	472

- (2) INFORMATION FOR SEQ ID NO:87:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 413 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:

AGAAACCAGT	ATCTCTNAAA	ACAACCTCTC	ATACCTTGTG	GACCTAATTT	TGTGTGCGTG	60
TGTGTGTGCG	CGCATATTAT	ATAGACAGGC	ACATCTTTTT	TACTTTTGTA	AAAGCTTATG	120
		GTGAAAGTTT				180
		ACTAGAGAAA				240
TTTATTCGAC	ATGAAGGAAA	TTTCCAGATN	ACAACACTNA	CAAACTCTCC	CTTGACTAGG	300
GGGGACAAAG	AAAAGCANAA	CTGAACATNA	GAAACAATTN	CCTGGTGAGA	AATTNCATAA	360
ACAGAAATTG	GGTNGTATAT	TGAAANANNG	CATCATTNAA	ACGTTTTTTT	TTT	413

#### (2) INFORMATION FOR SEQ ID NO:88:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 448 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:

CGCAGCGGGT	CCTCTCTATC	TAGCTCCAGC	CTCTCGCCTG	CCCCACTCCC	CGCGTCCCGC	60
GTCCTAGCCN	ACCATGGCCG	GGCCCCTGCG	CGCCCCGCTG	CTCCTGCTGG	CCATCCTGGC	120
		CCGCGGCCGG				180
GGGAGGCCCA	TGGACCCCGC	GTGGAAGAAG	AAGGTGTGCG	GCGTGCACTG	GACTTTGCCG	240
TCGGCNANTA	CAACAAACCC	GCAACNACTT	TTACCNAGCN	CGCGCTGCAG	GTTGTGCCGC	300
CCCAANCAAA	TTGTTACTNG	GGGTAANTAA	TTCTTGGAAG	TTGAACCTGG	GCCAAACNNG	360
TTTACCAGAA	CCNAGCCAAT	TNGAACAATT	NCCCCTCCAT	AACAGCCCCT	TTTAAAAAGG	420
GAANCANTCC	TGNTCTTTTC	CAAATTTT				448

- (2) INFORMATION FOR SEQ ID NO:89:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 463 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:

GAATTTTGTG	CACTGGCCAC	TGTGATGGAA	CCATTGGGCC	AGGATGCTTT	GAGTTTATCA	60
						120
						180
						240
						300
						360
						420
						463
	GTAGTGATTC AGAGGTCTAG CTCAGTGACA TTTNATGTTN TTTAACAAAA AATTCTCTCC	GTAGTGATTC TGCCAAAGTT AGAGGTCTAG GTCTGCATAT CTCAGTGACA AGTTNNTTCT TTTNATGTTN AGACTTGCCT TTTAACAAAA TAGAANNACT AATTCTCTCC CCATANNAAA	GTAGTGATTC TGCCAAAGTT GGTGTTGTAA AGAGGTCTAG GTCTGCATAT CAGCAGACAG CTCAGTGACA AGTTNNTTCT GATGCGAAGT TTTNATGTTN AGACTTGCCT CTNTNAAATT TTTAACAAAA TAGAANNACT TCTCTGCTTN AATTCTCTCC CCATANNAAA ACCCANGCCC	GTAGTGATTC TGCCAAAGTT GGTGTTGTAA CATGAGTATG AGAGGTCTAG GTCTGCATAT CAGCAGACAG TTTGTCCGTG CTCAGTGACA AGTTNNTTCT GATGCGAAGT TCTNATTCCA TTTNATGTTN AGACTTGCCT CTNTNAAATT GCTTTTGTNT TTTAACAAAA TAGAANNACT TCTCTGCTTN GAANATTTGA AATTCTCTCC CCATANNAAA ACCCANGCCC TTGGGANAAT	GTAGTGATTC TGCCAAAGTT GGTGTTGTAA CATGAGTATG TAAAATGTCA AGAGGTCTAG GTCTGCATAT CAGCAGACAG TTTGTCCGTG TATTTTGTAG CTCAGTGACA AGTTNNTTCT GATGCGAAGT TCTNATTCCA GTGTTTTAGT TTTNATGTTN AGACTTGCCT CTNTNAAATT GCTTTTGTNT TCTGCAGGTA TTTAACAAAA TAGAANNACT TCTCTGCTTN GAANATTTGA ATATCTTACA	GAATTTTGTG CACTGGCCAC TGTGATGGAA CCATTGGGCC AGGATGCTTT GAGTTTATCA GTAGTGATTC TGCCAAAGTT GGTGTTGTAA CATGAGTATG TAAAATGTCA AAAAATTAGC AGAGGTCTAG GTCTGCATAT CAGCAGACAG TTTGTCCGTG TATTTTGTAG CCTTGAAGTT CTCAGTGACA AGTTNNTTCT GATGCGAAGT TCTNATTCCA GTGTTTTAGT CCTTTGCATC TTTNATGTTN AGACTTGCCT CTNTNAAATT GCTTTTGTNT TCTGCAGGTA CTATCTGTGG TTTAACAAAA TAGAANNACT TCTCTGCTTN GAANATTTGA ATATCTTACA TCTNAAAATN AATTCTCTCC CCATANNAAA ACCCANGCCC TTGGGANAAT TTGAAAAANG GNTCCTTCNN AATTCNNANA ANTTCAGNTN TCATACAACA NAACNGGANC CCC

- (2) INFORMATION FOR SEQ ID NO:90:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:

AGGGATTGAA	GGTCTNTTNT	ACTGTCGGAC	TGTTCANCCA	CCAACTCTAC	AAGTTGCTGT	60
CTTCCACTCA	CTGTCTGTAA	GCNTNTTAAC	CCAGACTGTA	TCTTCATAAA	TAGAACAAAT	120
				TTAGTATAAG		180
TCCTTTGTTA	AGACTTCATC	TGGTAAAGTC	TTAAGTTTTG	TAGAAAGGAA	TTTAATTGCT	240
CGTTCTCTAA	CAATGTCCTC	TCCTTGAAGT	ATTTGGCTGA	ACAACCCACC	TNAAGTCCCT	300
TTGTGCATCC	ATTTTAAATA	TACTTAATAG	GGCATTGGTN	CACTAGGTTA	AATTCTGCAA	360
GAGTCATCTG	TCTGCAAAAG	TTGCGTTAGT	ATATCTGCCA			400

- (2) INFORMATION FOR SEQ ID NO:91:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 480 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:

GAGCTCGGAT	CCAATAATCT	TTGTCTGAGG	GCAGCACACA	TATNCAGTGC	CATGGNAACT	60
GGTCTACCCC	ACATGGGAGC	AGCATGCCGT	AGNTATATAA	GGTCATTCCC	TGAGTCAGAC	120
ATGCCTCTTT	GACTACCGTG	TGCCAGTGCT	GGTGATTCTC	ACACACCTCC	NNCCGCTCTT	180
TGTGGAAAAA	CTGGCACTTG	NCTGGAACTA	GCAAGACATC	ACTTACAAAT	TCACCCACGA	240
				TTTGTCCCTC		300
TGTCAATACT	AACCCGCTGG	TTTGCCTCCA	TCACATTTGT	GATCTGTAGC	TCTGGATACA	360
TCTCCTGACA	GTACTGAAGA	ACTTCTTCTT	TTGTTTCAAA	AGCAACTCTT	GGTGCCTGTT	420
NGATCAGGTT	CCCATTTCCC	AGTCCGAATG	TTCACATGGC	ATATNTTACT	TCCCACAAAA	480

- (2) INFORMATION FOR SEQ ID NO:92:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 477 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:

ATACAGCCCA	NATCCCACCA	CGAAGATGCG	CTTGTTGACT	GAGAACCTGA	TGCGGTCACT	60
					TGCACTCCTT	120
					GGTTGACGGT	180
					GTGCGGGACC	240

TGCAGCGAAA	CTCCTCGATG	GTCATGAGCG	GGAAGCGAAT	GANGCCCAGG	GCCTTGCCCA	300
GAACCTTCCG	CCTGTTCTCT	GGCGTCACCT	GCAGCTGCTG	CCGCTNACAC	TCGGCCTCGG	360
ACCAGCGGAC	AAACGGCGTT	GAACAGCCGC	ACCTCACGGA	TGCCCANTGT	GTCGCGCTCC	420
ACCAACCCCN	CCAGCGTGTC	CAGGTCAATG	TCGGTGAANC	CTCCGCGGGT	AATGGCG	477

- (2) INFORMATION FOR SEQ ID NO:93:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 377 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:

GAACGGCTGG	ACCTTGCCTC	GCATTGTGCT	GCTGGCAGGA	ATACCTTGGC	AAGCAGCTCC	60
		GCTGCCGCCC				120
		AGTGGGAGCA				180
TGATTTTACT	TGGGAATTTC	CTCTGTTATA	TAGCTTTTCC	CAATGCTAAT	TTCCAAACAA	240
CAACAACAAA	ΔΤΔΑCATGTT	TGCCTGTTNA	GTTGTATAAA	AGTANGTGAT	TCTGTATNTA	300
AACAAAATAT	TACTGTTACA	TATACTGCTT	GCAANTTCTG	TATTTATTGG	TNCTCTGGAA	360
ATAAATATAT		2	• •			377
WIUUUIUIUI	TLITITUTE					

- (2) INFORMATION FOR SEQ ID NO:94:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 495 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:

CCCTTTGAGG G	GTTAGGGTC	CAGTTCCCAG	TGGAAGAAAC	AGGCCAGGAG	AANTGCGTGC	60
CGAGCTGANG C	CAGATTTCCC	ACAGTGACCC	CAGAGCCCTG	GGCTATAGTC	TCTGACCCCT	120
CCAAGGAAAG A	CCACCTTCT	GGGGACATGG	GCTGGAGGGC	AGGACCTAGA	GGCACCAAGG	180
GAAGGCCCCA T	TCCGGGGCT	GTTCCCCGAG	GAGGAAGGGA	AGGGGCTCTG	TGTGCCCCCC	240
ACGAGGAANA G	GCCCTGANT	CCTGGGATCA	NACACCCCTT	CACGTGTATC	CCCACACAAA	300
TGCAAGCTCA C	CAAGGTCCC	CTCTCAGTCC	CTTCCCTACA	CCCTGAACGG	NCACTGGCCC	360
ACACCCACCC A	AGANCANCCA	CCCGCCATGG	GGAATGTNCT	CAAGGAATCG	CNGGGCAACG	420
TGGACTCTNG T	CCCNNAAGG	GGGCAGAATC	TCCAATAGAN	GGANNGAACC	CTTGCTNANA	480
AAAAAAAAAA	AAAA					495

- (2) INFORMATION FOR SEQ ID NO:95:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 472 base pairs
    - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:

GGTTACTTGG	TTTCATTGCC	ACCACTTAGT	GGATGTCATT	TAGAACCATT	TTGTCTGCTC	60
CCTCTGGAAG	CCTTGCGCAG	AGCGGACTTT	GTAATTGTTG	GAGAATAACT	GCTGAATTTT	120
				AATATGAAAA		180
				TCATACTGTA		240
ATGATGAAAA	GCAATAGATA	TATATTCTTT.	TATTATGTTN	AATTATGATT	GCCATTATTA	300
ATCGGCAAAA	TGTGGAGTGT	ATGTTCTTTT	CACAGTAATA	TATGCCTTTT	GTAACTTCAC	360
				TAAGAAAATG		420
ΤΤΤΔΝΤΤΟΔΝ	TAATTTCTTT	CCTTGTTTAC	GTTAATTTTG	AAAAGAATGC	AT	472

- (2) INFORMATION FOR SEQ ID NO:96:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 476 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:

CTGAAGCATT	TCTTCAAACT	TNTCTACTTT	TGTCATTGAT	ACCTGTAGTA	AGTTGACAAT	60
GTGGTGAAAT	TTCAAAATTA	TATGTAACTT	CTACTAGTTT	TACTTTCTCC	CCCAAGTCTT	120
TTTTAACTCA	TGATTTTTAC	ACACACAATC	CAGAACTTAT	TATATAGCCT	CTAAGTCTTT	180
ATTCTTCACA	GTAGATGATG	AAAGAGTCCT	CCAGTGTCTT	GNGCANAATG	TTCTAGNTAT	240
AGCTGGATAC	ATACNGTGGG	AGTTCTATAA	ACTCATACCT	CAGTGGGACT	NAACCAAAAT	300
TGTGTTAGTC	TCAATTCCTA	CCACACTGAG	GGAGCCTCCC	AAATCACTAT	ATTCTTATCT	360
GCAGGTACTC	CTCCAGAAAA	ACNGACAGGG	CAGGCTTGCA	TGAAAAAGTN	ACATCTGCGT	420
				TTAATCTTCT		476

- (2) INFORMATION FOR SEQ ID NO:97:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 479 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:

AAATAATGCT CAATCGCAAA GATTGTGCTC	ATGCTGATAT GCAAACTTAA TCAAAACTCA CTTCGGATAT	TGTTCTTATG CAAGTGCTCA GATTGTTTCT	CAAAATGGAA TCTGTTGTAG CANATCTTGG	CGCTAATGAA ATTTAGTGTA GCAATNTTCC	ACACAGCTTA ATAAGACTTA TTAGTCAAAT	60 120 180 240
GTGATTATNA NTNNTTTTTA	GAATTCTGTT AATTAATCAC NATCAAAGTA TTTTTTCCCN	AAATTTCACT TTTTGTGTTT	TATACCTGCT GGAANTGTNN	ATCAGCAGCT AAATGAAATC	AGAAAAACAT TGAATGTGGG	300 360 420 479

- (2) INFORMATION FOR SEQ ID NO:98:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 461 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:

AGTGACTTGT CCTCCAACAA AACCCCTTGA TCAAGTTTGT GGCACTGA	CA ATCAGACCTA 60
TGCTAGTTCC TGTCATCTAT TCGCTACTAA ATGCAGACTG GAGGGGAC	
TCAACTCCAG CTGGATTATT TTGGAGCCTG CAAATCTATT CCTACTTG	
AGTGATTCAG TTTCCTCTAC GGATGAGAGA CTGGCTCAAG AATATCCT	CA TGCAGCTTTA 240
TGAAGCCACT CTGAACACGC TGGTTATCTA GATGAGAACA GAGAAATA	AA GTCAGAAAAT 300
TTACCTGGAG AAAAGAGGCT TTGGCTGGGG ACCATCCCAT TGAACCTT	
TTAAGAAAAA CTACCACATG TTGTGTATCC TGGTGCCGGC CGTTTATC	
TTTGGAATAA TCTTGACGCT CCTGAACTTG CTCCTCTGCG A	461

- (2) INFORMATION FOR SEQ ID NO:99:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 171 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:

GTGGCCGCGC	GCAGGTGTTT	CCTCGTACCG	CAGGGCCCCC	TCCCTTCCCC	AGGCGTCCCT	60
CGGCGCCTCT	GCGGGCCCGA	GGAGGAGCGG	CTGGCGGGTG	GGGGGAGTGT	GACCCACCCT	120
		AGCGATCTGA				171

- (2) INFORMATION FOR SEQ ID NO:100:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 269 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single

(D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:100: CGGCCGCAAG TGCAACTCCA GCTGGGGCCG TGCGGACGAA GATTCTGCCA GCAGTTGGTC 60 CGACTGCGAC GACGGCGCG GCGACAGTCG CAGGTGCAGC GCGGGCGCCT GGGGTCTTGC 120 AAGGCTGAGC TGACGCCGCA GAGGTCGTGT CACGTCCCAC GACCTTGACG CCGTCGGGGA 180 CAGCCGGAAC AGAGCCCGGT GAAGCGGGAG GCCTCGGGGA GCCCCTCGGG AAGGGCGGCC 240 269 CGAGAGATAC GCAGGTGCAG GTGGCCGCC (2) INFORMATION FOR SEQ ID NO:101: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 405 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:101: TTTTTTTTT TTTTGGAATC TACTGCGAGC ACAGCAGGTC AGCAACAAGT TTATTTTGCA 60 120 GCTAGCAAGG TAACAGGGTA GGGCATGGTT ACATGTTCAG GTCAACTTCC TTTGTCGTGG TTGATTGGTT TGTCTTTATG GGGGCGGGGT GGGGTAGGGG AAACGAAGCA AATAACATGG 180 AGTGGGTGCA CCCTCCCTGT AGAACCTGGT TACAAAGCTT GGGGCAGTTC ACCTGGTCTG 240 TGACCGTCAT TTTCTTGACA TCAATGTTAT TAGAAGTCAG GATATCTTTT AGAGAGTCCA 300 CTGTTCTGGA GGGAGATTAG GGTTTCTTGC CAAATCCAAC AAAATCCACT GAAAAAGTTG 360 405 GATGATCAGT ACGAATACCG AGGCATATTC TCATATCGGT GGCCA (2) INFORMATION FOR SEO ID NO:102: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 470 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:102: 60 120 GGCACTTAAT CCATTTTAT TTCAAAATGT CTACAAATTT AATCCCATTA TACGGTATTT TCAAAATCTA AATTATTCAA ATTAGCCAAA TCCTTACCAA ATAATACCCA AAAATCAAAA 180

ATATACTTCT TTCAGCAAAC TTGTTACATA AATTAAAAAA ATATATACGG CTGGTGTTTT

CAAAGTACAA TTATCTTAAC ACTGCAAACA TTTTAAGGAA CTAAAATAAA AAAAAACACT

240 300

CCGCAAAGGT	TAAAGGGAAC	AACAAATTCT	TTTACAACAC	CATTATAAAA	ATCATATCTC	360
AAATCTTAGG	GGAATATATA	CTTCACACGG	GATCTTAACT	TTTACTCACT	TTGTTTATTT	420
TTTTAAACCA	TTGTTTGGGC	CCAACACAAT	GGAATCCCCC	CTGGACTAGT		470

- (2) INFORMATION FOR SEQ ID NO:103:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 581 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:103:

TTTTTTTTT	TTTTTTTTGA	CCCCCCTCTT	ATAAAAAACA	AGTTACCATT	TTATTTTACT	60
			ATATTCAAAA			120
TAAATGGAAA	CTGCCTTAGA	TACATAATTC	TTAGGAATTA	GCTTAAAATC	TGCCTAAAGT	180
			ATTTTTGACT			240
ATTTTTCTTG	TCTTTAAAAT	TATCTAATCT	TTCCATTTTT	TCCCTATTCC	AAGTCAATTT	300
GCTTCTCTAG	CCTCATTTCC	TAGCTCTTAT	CTACTATTAG	TAAGTGGCTT	TTTTCCTAAA	360
			AACAAACATT			420
			GCTCAAAAGA			480
ССАТТТАСТ	CACTAAACGA	TATCAAAGTG	CCAGAATGCA	AAAGGTTTGT	GAACATTTAT	540
			TCATCTTTCT			581

- (2) INFORMATION FOR SEQ ID NO:104:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 578 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:104:

<b>Դ</b>	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	TTTTTCTCTT	CTTTTTTTTT	GAAATGAGGA	TCGAGTTTTT	60
CACTCTCTAG	ATAGGGCATG	AAGAAAACTC	ATCTTTCCAG	$\mathtt{CTTTAAAATA}$	ACAATCAAAT	120
CTCTTATGCT	ATATCATATT	TTAAGTTAAA	CTAATGAGTC	ACTGGCTTAT	CTTCTCCTGA	180
				AGTACTACCT		240
				ATTTGTATCA		300
				AAGAGAACAA		360
					GAGCTAATAC	420
AAATCACATT	TACGACAGCA	ATAATAAAAC	TGAAGTACCA	GTTAAATATC	CAAAATAATT	480
				TTTACAAGCA	TTTATTAGAA	540
TGAATTCACA	TGTTATTATT	CCTAGCCCAA	CACAATGG			578

(2) INFORMATION FOR SEQ ID NO:105:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 538 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:

TTTTTTTTTT	TTTTTCAGTA	ATAATCAGAA	CAATATTTAT	TTTTATATTT	AAAATTCATA	60
GAAAAGTGCC	TTACATTTAA	TAAAAGTTTG	TTTCTCAAAG	TGATCAGAGG	AATTAGATAT	120
GTCTTGAACA	CCAATATTAA	TTTGAGGAAA	ATACACCAAA	ATACATTAAG	TTAAATTATTT	180
AAGATCATAG	AGCTTGTAAG	TGAAAAGATA	AAATTTGACC	TCAGAAACTC	TGAGCATTAA	240
				TTTAATTTTG		300
GGGGTGTCAC	TGGTAAACCA	ACACATTCTG	AAGGATACAT	TACTTAGTGA	TAGATTCTTA	360
TGTACTTTGC	TAATACGTGG	ATATGAGTTG	ACAAGTTTCT	CTTTCTTCAA	TCTTTTAAGG	420
GGCGAGAAAT	GAGGAAGAAA	AGAAAAGGAT	TACGCATACT	${\tt GTTCTTTCTA}$	TGGAAGGATT	480
AGATATGTTT	CCTTTGCCAA	TATTAAAAAAA	ATAATAATGT	TTACTACTAG	TGAAACCC	538

- (2) INFORMATION FOR SEQ ID NO:106:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 473 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:106:

TTTTTTTTTT TTTTTT	AGTC AAGTTTCTAT	TTTTATTATA	ATTAAAGTCT	TGGTCATTTC	60
ATTTATTAGC TCTGCA	ACTT ACATATTTAA	ATTAAAGAAA	CGTTTTAGAC	AACTGTACAA	120
TTTATAAATG TAAGGT	GCCA TTATTGAGTA	ATATATTCCT	CCAAGAGTGG	ATGTGTCCCT	180
TCTCCCACCA ACTAAT	GAAC AGCAACATTA	GTTTAATTTT	ATTAGTAGAT	ATACACTGCT	240
GCAAACGCTA ATTCTC	TTCT CCATCCCCAT	GTGATATTGT	GTATATGTGT	GAGTTGGTAG	300
AATGCATCAC AATCTA					360
AGACTGTGTC TGTCTG					420
CCGCTTCCTC AAAGGC	GCTG CCACATTTGT	GGCTCTTTGC	ACTTGTTTCA	AAA	473

- (2) INFORMATION FOR SEQ ID NO:107:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1621 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:

#### (A) ORGANISM: Homo sapiens

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:

CGCCATGGCA	CTGCAGGGCA	TCTCGGTCAT	GGAGCTGTCC	GGCCTGGCCC	CGGGCCCGTT	60
CTGTGCTATG	GTCCTGGCTG	ACTTCGGGGC	$\tt GCGTGTGGTA$	CGCGTGGACC	GGCCCGGCTC	120
CCGCTACGAC	GTGAGCCGCT	TGGGCCGGGG	CAAGCGCTCG	CTAGTGCTGG	ACCTGAAGCA	180
GCCGCGGGGA	GCCGCCGTGC	TGCGGCGTCT	GTGCAAGCGG	TCGGATGTGC	TGCTGGAGCC	240
CTTCCGCCGC	GGTGTCATGG	AGAAACTCCA	GCTGGGCCCA	GAGATTCTGC	AGCGGGAAAA	300
TCCAAGGCTT	ATTTATGCCA	GGCTGAGTGG	ATTTGGCCAG	TCAGGAAGCT	TCTGCCGGTT	360
AGCTGGCCAC	GATATCAACT	ATTTGGCTTT	${\tt GTCAGGTGTT}$	CTCTCAAAAA	TTGGCAGAAG	420
TGGTGAGAAT	CCGTATGCCC	CGCTGAATCT	CCTGGCTGAC	TTTGCTGGTG	GTGGCCTTAT	480
GTGTGCACTG	GGCATTATAA	TGGCTCTTTT	TGACCGCACA	CGCACTGACA	AGGGTCAGGT	540
CATTGATGCA	AATATGGTGG	AAGGAACAGC	ATATTTAAGT	TCTTTTCTGT	GGAAAACTCA	600
GAAATCGAGT	CTGTGGGAAG	CACCTCGAGG	ACAGAACATG	TTGGATGGTG	GAGCACCTTT	660
CTATACGACT	TACAGGACAG	CAGATGGGGA	ATTCATGGCT	GTTGGAGCAA	TAGAACCCCA	720
GTTCTACGAG	CTGCTGATCA	AAGGACTTGG	ACTAAAGTCT	GATGAACTTC	CCAATCAGAT	780
GAGCATGGAT	GATTGGCCAG	AAATGAAGAA	GAAGTTTGCA	GATGTATTTG	CAAAGAAGAC	840
GAAGGCAGAG	TGGTGTCAAA	TCTTTGACGG	CACAGATGCC	TGTGTGACTC	CGGTTCTGAC	900
TTTTGAGGAG	GTTGTTCATC	ATGATCACAA	CAAGGAACGG	GGCTCGTTTA	TCACCAGTGA	960
GGAGCAGGAC	GTGAGCCCCC	GCCCTGCACC	TCTGCTGTTA	AACACCCCAG	CCATCCCTTC	1020
TTTCAAAAGG	GATCCTTTCA	TAGGAGAACA	CACTGAGGAG	ATACTTGAAG	AATTTGGATT	1080
CAGCCGCGAA	GAGATTTATC	AGCTTAACTC	AGATAAAATC	ATTGAAAGTA	ATAAGGTAAA	1140
AGCTAGTCTC	TAACTTCCAG	GCCCACGGCT	CAAGTGAATT	TGAATACTGC	ATTTACAGTG	1200
TAGAGTAACA	CATAACATTG	TATGCATGGA	AACATGGAGG	AACAGTATTA	CAGTGTCCTA	1260
CCACTCTAAT	CAAGAAAAGA	ATTACAGACT	CTGATTCTAC	AGTGATGATT	GAATTCTAAA	1320
AATGGTTATC	ATTAGGGCTT	TTGATTTATA	AAACTTTGGG	TACTTATACT	AAATTATGGT	1380
AGTTATTCTG	CCTTCCAGTT	TGCTTGATAT	ATTTGTTGAT	ATTAAGATTC	TTGACTTATA	1440
TTTTGAATGG	GTTCTAGTGA	AAAAGGAATG	ATATATTCTT	GAAGACATCG	ATATACATTT	1500
ATTTACACTC	TTGATTCTAC		ATGAGGAAAT	GCCACAAATT	GTATGGTGAT	1560
AAAAGTCACG	TGAAACAAAA	AAAAAAAAA	AAAAAAAAA	AAAAAAAAA	AAAAAAAAA	1620
A						1621

# (2) INFORMATION FOR SEQ ID NO:108:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 382 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (vi) ORIGINAL SOURCE:

65

- (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:108:

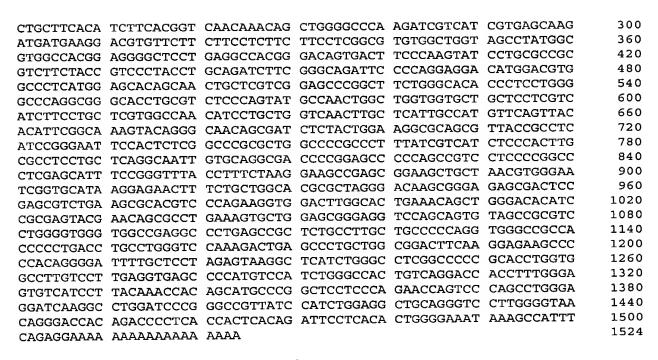
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Met Ala Leu Gln Gly Ile Ser Val Met Glu Leu Ser Gly Leu Ala Pro
Gly Pro Phe Cys Ala Met Val Leu Ala Asp Phe Gly Ala Arg Val Val
                                25
            20
Arg Val Asp Arg Pro Gly Ser Arg Tyr Asp Val Ser Arg Leu Gly Arg
                            40
Gly Lys Arg Ser Leu Val Leu Asp Leu Lys Gln Pro Arg Gly Ala Ala
                        55
Val Leu Arg Arg Leu Cys Lys Arg Ser Asp Val Leu Leu Glu Pro Phe
                                        75
                    70
```

Arg	Arg	Gly	Val	Met 85	Glu	Lys	Leu	Gln	Leu 90	Gly	Pro	Glu	Ile	Leu 95	Gln
Arg	Glu	Asn	Pro 100	Arg	Leu	Ile	Tyr	Ala 105	Arg	Leu	Ser	Gly	Phe 110	Gly	Gln
	_	115		_	_		120					125	Tyr		
	130					135					140		Asn		
Ala 145	Pro	Leu	Asn	Leu	Leu 150	Ala	Asp	Phe	Ala	Gly 155	Gly	Gly	Leu	Met	Cys 160
Ala	Leu	Gly	Ile	Ile 165	Met	Ala	Leu	Phe	Asp 170	Arg	Thr	Arg	Thr	Asp 175	Lys
			180					185					Tyr 190		
		195	_				200					205	Ala		
	210					215					220		Thr		
225		_	_		230					235			Pro		240
-				245					250				Glu	255	
			260					265					Lys 270		
_		275					280					285	Ile		
_	290					295					300		Glu		
305		_			310					315			Ser		320
	_			325					330				Thr	335	
			340					345					Thr 350		
		355					360					365	Gln	Leu	Asn
Ser	Asp 370	Lys	Ile	Ile	Glu	Ser 375	Asn	Lys	Val	Lys	Ala 380	Ser	Leu		

# (2) INFORMATION FOR SEQ ID NO:109:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1524 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:

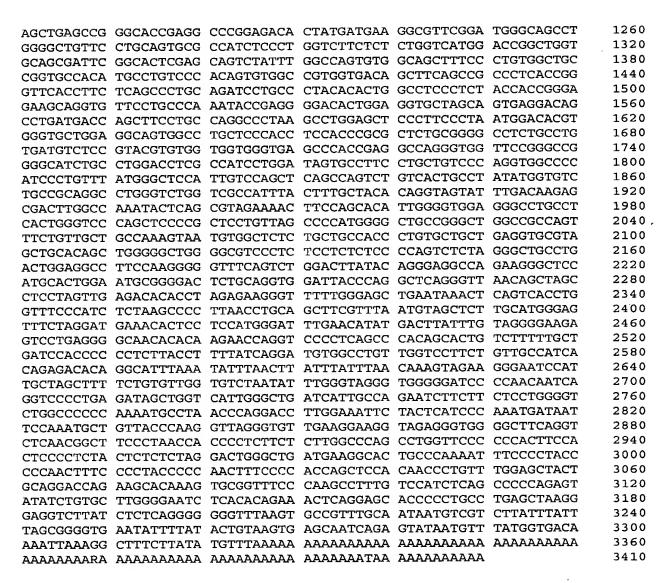
GGCACGAGGC	TGCGCCAGGG	CCTGAGCGGA	GGCGGGGGCA	GCCTCGCCAG	CGGGGGCCCC	60
GGGCCTGGCC	ATGCCTCACT	GAGCCAGCGC	CTGCGCCTCT	ACCTCGCCGA	CAGCTGGAAC	120
CAGTGCGACC	TAGTGGCTCT	CACCTGCTTC	CTCCTGGGCG	TGGGCTGCCG	GCTGACCCCG	180
GGTTTGTACC	ACCTGGGCCG	CACTGTCCTC	TGCATCGACT	TCATGGTTTT	CACGGTGCGG	240



### (2) INFORMATION FOR SEQ ID NO:110:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 3410 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:110:

GGGAACCAGC	CTGCACGCGC	TGGCTCCGGG	TGACAGCCGC	GCGCCTCGGC	CAGGATCTGA	60
GTGATGAGAC	GTGTCCCCAC	TGAGGTGCCC	CACAGCAGCA	GGTGTTGAGC	ATGGGCTGAG	120
AAGCTGGACC	GGCACCAAAG	GGCTGGCAGA	AATGGGCGCC	TGGCTGATTC	CTAGGCAGTT	180
GGCGGCAGCA	AGGAGGAGAG	GCCGCAGCTT	CTGGAGCAGA	GCCGAGACGA	AGCAGTTCTG	240
GAGTGCCTGA	ACGGCCCCCT	GAGCCCTACC	CGCCTGGCCC	ACTATGGTCC	AGAGGCTGTG	300
GGTGAGCCGC	CTGCTGCGGC	ACCGGAAAGC	CCAGCTCTTG	CTGGTCAACC	TGCTAACCTT	360
TGGCCTGGAG	GTGTGTTTGG	CCGCAGGCAT	CACCTATGTG	CCGCCTCTGC	TGCTGGAAGT	420
GGGGGTAGAG	GAGAAGTTCA	TGACCATGGT	GCTGGGCATT	GGTCCAGTGC	TGGGCCTGGT	480
CTGTGTCCCG	CTCCTAGGCT	CAGCCAGTGA	CCACTGGCGT	GGACGCTATG	GCCGCCGCCG	540
GCCCTTCATC	TGGGCACTGT	CCTTGGGCAT	CCTGCTGAGC	CTCTTTCTCA	TCCCAAGGGC	600
CGGCTGGCTA	GCAGGGCTGC	TGTGCCCGGA	TCCCAGGCCC	CTGGAGCTGG	CACTGCTCAT	660
CCTGGGCGTG	GGGCTGCTGG	ACTTCTGTGG	CCAGGTGTGC	TTCACTCCAC	TGGAGGCCCT	720
GCTCTCTGAC	CTCTTCCGGG	ACCCGGACCA	CTGTCGCCAG	GCCTACTCTG	TCTATGCCTT	780
CATGATCAGT	CTTGGGGGCT	GCCTGGGCTA	CCTCCTGCCT	GCCATTGACT	GGGACACCAG	840
TGCCCTGGCC	CCCTACCTGG	GCACCCAGGA		TTTGGCCTGC	TCACCCTCAT	900
CTTCCTCACC	TGCGTAGCAG	CCACACTGCT		GAGGCAGCGC	TGGGCCCCAC	960
CGAGCCAGCA		CGGCCCCCTC		CACTGCTGTC	CATGCCGGGC	1020
CCGCTTGGCT	TTCCGGAACC	TGGGCGCCCT		CTGCACCAGC	TGTGCTGCCG	1080
CATGCCCCGC		GGCTCTTCGT	GGCTGAGCTG	TGCAGCTGGA	TGGCACTCAT	1140
GACCTTCACG		CGGATTTCGT	GGGCGAGGGG	CTGTACCAGG	GCGTGCCCAG	1200
GACCITCACO	C. C. I.					



### (2) INFORMATION FOR SEQ ID NO:111:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1289 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:111:

AGCCAGGCGT C	CCTCTGCCT	GCCCACTCAG	TGGCAACACC	CGGGAGCTGT	TTTGTCCTTT	60
GTGGAGCCTC A	AGCAGTTCCC	TCTTTCAGAA	CTCACTGCCA	AGAGCCCTGA	ACAGGAGCCA	120
CCATGCAGTG C	CTTCAGCTTC	ATTAAGACCA	TGATGATCCT	CTTCAATTTG	CTCATCTTTC	180
TGTGTGGTGC A	AGCCCTGTTG	GCAGTGGGCA	TCTGGGTGTC	AATCGATGGG	GCATCCTTTC	240
TGAAGATCTT (	CGGGCCACTG	${\tt TCGTCCAGTG}$	CCATGCAGTT	TGTCAACGTG	GGCTACTTCC	300

TCATCGCAGC	CGGCGTTGTG	GTCTTTGCTC	TTGGTTTCCT	GGGCTGCTAT	GGTGCTAAGA	360
CTGAGAGCAA	GTGTGCCCTC	GTGACGTTCT	TCTTCATCCT	CCTCCTCATC	TTCATTGCTG	420
AGGTTGCAGC	TGCTGTGGTC	GCCTTGGTGT	ACACCACAAT	GGCTGAGCAC	TTCCTGACGT	480
TGCTGGTAGT	GCCTGCCATC	AAGAAAGATT	ATGGTTCCCA	GGAAGACTTC	ACTCAAGTGT	540
GGAACACCAC	CATGAAAGGG	CTCAAGTGCT	GTGGCTTCAC	CAACTATACG	GATTTTGAGG	600
ACTCACCCTA	CTTCAAAGAG	AACAGTGCCT	TTCCCCCATT	CTGTTGCAAT	GACAACGTCA	660
CCAACACAGC	CAATGAAACC	TGCACCAAGC	AAAAGGCTCA	CGACCAAAAA	GTAGAGGGTT	720
GCTTCAATCA	GCTTTTGTAT	GACATCCGAA	CTAATGCAGT	CACCGTGGGT	GGTGTGGCAG	780
CTGGAATTGG	GGGCCTCGAG	CTGGCTGCCA	TGATTGTGTC	CATGTATCTG	TACTGCAATC	840
TACAATAAGT	CCACTTCTGC	CTCTGCCACT	ACTGCTGCCA	CATGGGAACT	GTGAAGAGGC	900
ACCCTGGCAA	GCAGCAGTGA	TTGGGGGAGG	GGACAGGATC	TAACAATGTC	ACTTGGGCCA	960
GAATGGACCT	GCCCTTTCTG	CTCCAGACTT	GGGGCTAGAT	AGGGACCACT	CCTTTTAGCG	1020
ATGCCTGACT	TTCCTTCCAT	TGGTGGGTGG	ATGGGTGGGG	GGCATTCCAG	AGCCTCTAAG	1080
GTAGCCAGTT	CTGTTGCCCA	TTCCCCCAGT	CTATTAAACC	CTTGATATGC	CCCCTAGGCC	1140
TAGTGGTGAT	CCCAGTGCTC	TACTGGGGGA	TGAGAGAAAG	GCATTTTATA	GCCTGGGCAT	1200
AAGTGAAATC	AGCAGAGCCT	CTGGGTGGAT	GTGTAGAAGG	CACTTCAAAA	TGCATAAACC	1260
TGTTACAATG	TTAAAAAAAA	AAAAAAAA				1289

### (2) INFORMATION FOR SEQ ID NO:112:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 315 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:112:
- Met Val Phe Thr Val Arg Leu Leu His Ile Phe Thr Val Asn Lys Gln 1 5 10 15
- Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys Asp Val Phe 20 25 30
- Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr Gly Val Ala 35 40 45
- Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro Ser Ile Leu 50 55 60
- Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly Gln Ile Pro 65 70 75 80
- Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn Cys Ser Ser 85 90 95
- Glu Pro Gly Phe Trp Ala His Pro Pro Gly Ala Gln Ala Gly Thr Cys
  100 105 110
- Val Ser Gln Tyr Ala Asn Trp Leu Val Val Leu Leu Leu Val Ile Phe 115 120 125
- Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu Ile Ala Met Phe

130 135 140 Ser Tyr Thr Phe Gly Lys Val Gln Gly Asn Ser Asp Leu Tyr Trp Lys 155 Ala Gln Arg Tyr Arg Leu Ile Arg Glu Phe His Ser Arg Pro Ala Leu Ala Pro Pro Phe Ile Val Ile Ser His Leu Arg Leu Leu Arg Gln Leu Cys Arg Arg Pro Arg Ser Pro Gln Pro Ser Ser Pro Ala Leu Glu His Phe Arg Val Tyr Leu Ser Lys Glu Ala Glu Arg Lys Leu Leu Thr Trp Glu Ser Val His Lys Glu Asn Phe Leu Leu Ala Arg Ala Arg Asp 230 225 Lys Arq Glu Ser Asp Ser Glu Arg Leu Lys Arg Thr Ser Gln Lys Val Asp Leu Ala Leu Lys Gln Leu Gly His Ile Arg Glu Tyr Glu Gln Arg Leu Lys Val Leu Glu Arg Glu Val Gln Gln Cys Ser Arg Val Leu Gly Trp Val Ala Glu Ala Leu Ser Arg Ser Ala Leu Leu Pro Pro Gly Gly 290 Pro Pro Pro Pro Asp Leu Pro Gly Ser Lys Asp

- (2) INFORMATION FOR SEQ ID NO:113:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 553 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: protein
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:113:

Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala 1 10 15

Gln Leu Leu Val Asn Leu Leu Thr Phe Gly Leu Glu Val Cys Leu 20 25 30

Ala Ala Gly Ile Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val 35 40 45

Glu Glu Lys Phe Met Thr Met Val Leu Gly Ile Gly Pro Val Leu Gly 55 Leu Val Cys Val Pro Leu Leu Gly Ser Ala Ser Asp His Trp Arg Gly 75 Arg Tyr Gly Arg Arg Pro Phe Ile Trp Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala Gly Trp Leu Ala Gly Leu 105 Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val Cys Phe Thr Pro Leu Glu 140 Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg Gln Ala 145 Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu Gly Gly Cys Leu Gly Tyr 170 Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu Leu Thr Leu Ile Phe Leu Thr Cys Val Ala Ala Thr Leu Leu Val Ala Glu Glu Ala Ala Leu Gly 210 Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala Pro Ser Leu Ser Pro His 235 Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg Met Pro Arg Thr Leu Arg Arg Leu Phe Val Ala Glu Leu Cys Ser Trp Met Ala Leu Met Thr Phe Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly 305 Val Arg Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu 330 Val Phe Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg 345

Ala Val Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala 355 360 365

Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu 370 375 380

Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala 385 390 395 400

Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly
405 410 415

Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu 420 425 430

Pro Gly Pro Lys Pro Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala 435 440 445

Gly Gly Ser Gly Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser 450 455 460

Ala Cys Asp Val Ser Val Arg Val Val Gly Glu Pro Thr Glu Ala 465 470 475 480

Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp 485 490 495

Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser 500 505 510

Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala 515 520 525

Gly Leu Gly Leu Val Ala Ile Tyr Phe Ala Thr Gln Val Val Phe Asp 530 535 540

Lys Ser Asp Leu Ala Lys Tyr Ser Ala 545 550

### (2) INFORMATION FOR SEQ ID NO:114:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 241 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:114:

Met Gln Cys Phe Ser Phe Ile Lys Thr Met Met Ile Leu Phe Asn Leu 1 5 10 15

Leu Ile Phe Leu Cys Gly Ala Ala Leu Leu Ala Val Gly Ile Trp Val

			20					25					30		
Ser	Ile	Asp 35	Gly	Ala	Ser	Phe	Leu 40	Lys	Ile	Phe	Gly	Pro 45	Leu	Ser	Ser
Ser	Ala 50	Met	Gln	Phe	Val	Asn 55	Val	Gly	Tyr	Phe	Leu 60	Ile	Ala	Ala	Gly
Val 65	Val	Val	Phe	Ala	Leu 70	Gly	Phe	Leu	Gly	Cys 75	Tyr	Gly	Ala	Lys	Thr 80
Glu	Ser	Lys	Cys	Ala 85	Leu	Val	Thr	Phe	Phe 90	Phe	Ile	Leu	Leu	Leu 95	Ile
Phe	Ile	Ala	Glu 100	Val	Ala	Ala	Ala	Val 105	Val	Ala	Leu	Val	Tyr 110	Thr	Thr
Met	Ala	Glu 115	His	Phe	Leu	Thr	Leu 120	Leu	Val	Val	Pro	Ala 125	Ile	Lys	Lys
Asp	Tyr 130	Gly	Ser	Gln	Glu	Asp 135	Phe	Thr	Gln	Val	Trp 140	Asn	Thr	Thr	Met
Lys 145	Gly	Leu	Lys	Cys	Cys 150	Gly	Phe	Thr	Asn	Tyr 155	Thr	Asp	Phe	Glu	Asp 160
				165					170				Cys	175	
			180					185					Gln 190		
		195					200					205	Tyr		
	210					215					220		Ile		
Leu 225	Glu	Leu	Ala	Ala	Met 230	Ile	Val	Ser	Met	Tyr 235	Leu	Tyr	Cys	Asn	Leu 240
Gln															

# (2) INFORMATION FOR SEQ ID NO:115:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 366 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo Sapiens

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:115:

GCTCTTTCTC 7	TCCCCTCCTC	TGAATTTAAT	TCTTTCAACT	TGCAATTTGC	AAGGATTACA	60
CATTTCACTG I						120
TTGGTTTGTG A	AATCCATCTT	GCTTTTTCCC	CATTGGAACT	AGTCATTAAC	CCATCTCTGA	180
ACTGGTAGAA A						240
TCTCAGAACC A						300
TCTCTACATG C	CATAACAAAC	CCTGCTCCAA	TCTGTCACAT	AAAAGTCTGT	GACTTGAAGT	360
TTAGTC						366

- (2) INFORMATION FOR SEQ ID NO:116:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 282 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:116:

ACAAAGATGA	ACCATTTCCT	ATATTATAGC	AAAATTAAAA	TCTACCCGTA	TTCTAATATT	60
					GTGACCTCAA	120
AGACTTTACT	ATTTTCATAT	TTTAAGACAC	ATGATTTATC	CTATTTTAGT	AACCTGGTTC	180
ATACGTTAAA	CAAAGGATAA	TGTGAACAGC	AGAGAGGATT	TGTTGGCAGA	AAATCTATGT	240
TONDTOTAL	ΔΟΥΔΥΟΥΔΝΔ	TCACAGACAT	TTCTATTCCT	TT		282

- (2) INFORMATION FOR SEQ ID NO:117:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 305 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:117:

ACACATGTCG CTTCACTGCC TTCTTAGATG CTTCTGGTCA ACATANAGGA ACAGGGACCA	60
TATTTATCCT CCCTCCTGAA ACAATTGCAA AATAANACAA AATATATGAA ACAATTGCAA	120
AATAAGGCAA AATATATGAA ACAACAGGTC TCGAGATATT GGAAATCAGT CAATGAAGGA	180
TACTGATCCC TGATCACTGT CCTAATGCAG GATGTGGGAA ACAGATGAGG TCACCTCTGT	240
GACTGCCCCA GCTTACTGCC TGTAGAGAGT TTCTANGCTG CAGTTCAGAC AGGGAGAAAT	300
TGGGT	305

- (2) INFORMATION FOR SEQ ID NO:118:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 71 base pairs

<ul><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:118:	
ACCAAGGTGT NTGAATCTCT GACGTGGGGA TCTCTGATTC CCGCACAATC TGAGTGGAAA AANTCCTGGG T	60 71
(2) INFORMATION FOR SEQ ID NO:119:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 212 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
(vi) ORIGINAL SOURCE:  (A) ORGANISM: Homo sapiens	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:119:	
ACTCCGGTTG GTGTCAGCAG CACGTGGCAT TGAACATNGC AATGTGGAGC CCAAACCACA GAAAATGGGG TGAAATTGGC CAACTTTCTA TNAACTTATG TTGGCAANTT TGCCACCAAC AGTAAGCTGG CCCTTCTAAT AAAAGAAAAT TGAAAGGTTT CTCACTAANC GGAATTAANT AATGGANTCA AGANACTCCC AGGCCTCAGC GT	60 120 180 212
(2) INFORMATION FOR SEQ ID NO:120:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 90 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:    (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:120:	
ACTCGTTGCA NATCAGGGGC CCCCCAGAGT CACCGTTGCA GGAGTCCTTC TGGTCTTGCC CTCCGCCGGC GCAGAACATG CTGGGGTGGT	60 90
(2) INFORMATION FOR SEQ ID NO:121:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 218 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li></ul>	

(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:121:	
TGTANCGTGA ANACGACAGA NAGGGTTGTC AAAAATGGAG AANCCTTGAA GTCATTTTGA GAATAAGATT TGCTAAAAGA TTTGGGGCTA AAACATGGTT ATTGGGAGAC ATTTCTGAAG ATATNCANGT AAATTANGGA ATGAATTCAT GGTTCTTTTG GGAATTCCTT TACGATNGCC AGCATANACT TCATGTGGGG ATANCAGCTA CCCTTGTA	60 120 180 218
(2) INFORMATION FOR SEQ ID NO:122:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 171 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:122:	
TAGGGGTGTA TGCAACTGTA AGGACAAAAA TTGAGACTCA ACTGGCTTAA CCAATAAAGG CATTTGTTAG CTCATGGAAC AGGAAGTCGG ATGGTGGGGC ATCTTCAGTG CTGCATGAGT CACCACCCG GCGGGGTCAT CTGTGCCACA GGTCCCTGTT GACAGTGCGG T	60 120 171
(2) INFORMATION FOR SEQ ID NO:123:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 76 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:123:	
TGTAGCGTGA AGACNACAGA ATGGTGTGTG CTGTGCTATC CAGGAACACA TTTATTATCA TTATCAANTA TTGTGT	60 76
(2) INFORMATION FOR SEQ ID NO:124:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 131 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:124:  ACCTTICCCC AAGGCCAATG TCCTGTGTGC TAACTGGCCG GCTGCAGGAC AGCTGCAATT CATGCTGTGTG GGTGATTGG AGGGGAGGAGA ACCTCTAAAAT AGCCAATTT ATTCTCTTGG 120 TTAAGATTTG T 131  (2) INFORMATION FOR SEQ ID NO:125:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 432 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: CDNA  (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:125:  ACTITATCTA CTGGCTATGA AATAGATGGT GGAAAATTCC GTTACCAACT ATACCACTGG CTTGAAGAAAG AGGGGAGAAGAT TTTGCTCAGAA TGCTGAAGAA 120 CTACAGTCTG CATTGGCAG AAATGAAGAT GAATTTGGAT TAAATGAAGA TGCTGAAGAA 120 CTACCAGTCTG CATTGGCAG AAATGAAGAT TTTCTTAGGTA TAAATGAGAT TCAGGGAAGAT TTTGCTCCACA AAACAAAAGT GAAACACTA AGAGAAATT TTCTAGGATAA AAAGACACTGG CATGGTGGGG GTCTTGCAC TATTGCAGAAAA AAGACACTGG CATGGTGGGG GTCTTGCAC TATTGCAGAAAA AAGACACTGG CAGGAAAACAT CAGAACACT ATACCACTC AGAACACTC AGAGACACT CAGAACACT ATACCACTC AGAACACTC AGAACACT ACGAACACT ATACCACTC AGAACACTC AGAACACTC AGAACACT ACGACACACAC ATTTTCTAGG ACCTCTCTTTGCTAAGA AAACACACTG AGAACTCCA GAGAACACT CAGAACACACAC ATTTTCTAGG CCTCTGTCAG AGCAAACCTC AGTGCCTCTC CTCTTTGCTT GT  (2) INFORMATION FOR SEQ ID NO:126:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: CDNA  (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (X1) SEQUENCE DESCRIPTION: SEQ ID NO:126:  ACACAACTTG AATAGTAAAA TAGAAACTGA GCTGAAATTT CTAATTCACT TTCTAACCAT AGGTAAGATT ATAGAAATTH ATAAAAATTT GT  ACACAACTTG AATAGTAAAA TAGAAACTGA GCTGAAATTTT ATAAAAAATTT GT  AGGTAAGATTG ATATTTCCCC CCAGGGATCA CCAAATATTT ATAAAAAATTT GT  AGGTAAGATTG ATATTTCCCC CCAGGGATCA CCAAATATTT ATAAAAAATTT GT	(ii) MOLECULE TYPE: cDNA	
ACCTTTCCCC AAGGCCAATG TCCTGTGTG TAACTGGCCG GCTGCAGGAC AGCTGCAATT CAATGTGTG GGTCATATGG AGGGGAGGAG ACTCTAAAAT AGCCAATTTT ATTCTCTTGG 1120 TTAAGATTTG T  (2) INFORMATION FOR SEQ ID NO:125:  (i) SEQUENCE CHARACTERISTICS: (a) LENGTH: 432 base pairs (B) Type: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: CDNA  (vi) ORIGINAL SOURCE: (A) ORGANISM: HOMO SAPIENS  (XI) SEQUENCE DESCRIPTION: SEQ ID NO:125:  ACTTTATCTA CTGGCTATGA AATAGATGGT GGAAAATTCC GTTACCAACT ATACCACTGG CTTGAAAAAG AGGTGATAGA CTCTTCAGAGG ACTTGTGACT TTTGCTCAGA TGCTGAAGAA  TTGCCTCACC AAACAAAAGT GAAACAACTG AGAGAAAATT TTCAAGAAAA AAGACAGTGG CTCTTGAAGAT ATCAGTCACT TTTTGAGAATG TTTTCTTAGTT ACTGCATACT ATACCACTGG CACTGGTGGG GTCTTGCATC TGTAAGAATG GAATTGATT TTTTTAGTA TAGAACACTC AGAGAAAAACTTTTGCTAACACT TTTTTGCATACT ACTGCATCC CAGGGAACAT CAGAACCACT ATTTCTCAGC CCTCTGTCAG AGCAAAACCTC AGTGCCTCTCTTTGCTT GT  (2) INFORMATION FOR SEQ ID NO:126:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: CDNA  (vi) ORIGINAL SOURCE: (A) ORGANISM: HOMO SAPIENS (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:  ACACAACTTG AATAGTAAAA TAGAAACTGA GCTGAAATTT CTAATTCACT TTCTAACCAT		
CAATGTGCTG GGTCATATGG AGGGGAGGAG ACTCTAAAAT AGCCAATTTT ATTCTCTTGG TTAAGATTTG T  (2) INFORMATION FOR SEQ ID NO:125:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 432 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: CDNA  (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:125:  ACTTGAAAAAG AGGGATAGC ACTTCTAGAGG ACTTGTGACT ATTACCACTGG CTTGAAAAAG AGGTGATAGC TCTTCAGAGG ACTTGTGACT TTTGCTCAGA TGCTGAAGAA TTGCCTCACC AAACAAAAGT GAACAACTG AGAGAAATTT TTCAGAAAA AAGACAGTGG CACTGGAGAACAT CAGAACCACT ATTTCTAGAAT TTCTTAGTT ACTGCATACT TCATGGATCC CATGGTGGGG GTCTTGCATC TGTAAGAATG GAATTGATT TGCTTTTGCA AGAATCTCAG CAGGAAACAT CAGAACCACT ATTTTCTAGC CCTCTGTCAG AGCAAACCTC AGTGCCTCTC CATGGTGGGG GTCTTGCATC TGTAAGAATG GAATTGATT TGCTTTTGCA AGAATCTCAG CAGGAAACAT CAGAACCACT ATTTTCTAGC CCTCTGTCAG AGCAAACCTC AGTGCCTCTC (2) INFORMATION FOR SEQ ID NO:126:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: CDNA  (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:  ACACAACCTG AATAGTAAAA TAGAAACTGA GCTGAAATTT CTAATTCACT TTCTAACCAT	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:124:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 432 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (vi) ORIGINAL SOURCE:  (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:125:  ACTITATCTA CIGGCTATGA AATAGATGGT GAAAATTGC GITACCAACT ATACCACTGG CITGAAAAAG AGGTGATAGC TCTTCAGAGG ACTIGTGACT TITGCTCAGA TGCTGAAGAA  TIGCCTCACC AAACAAAAGT GAAACAACTG AGAGAAAATT TTCAGGAAAA AAGACAGTGG CATGTGAGGG GICTTGCATC TGTAAGAATG TITCITAGTT ACTGCATACT TCATGGATCC CATGCTGGGG GICTTGCATC TGTAAGAATG GAATTGATTT TGCTTTTGCA AGAATCTCAG CAGGAAACAT CAGAACCACT ATTTTCTAGC CCTCTTGCAG AGCAAACCTC AGTGCCTCTC CTCTTTGCTT GT  (2) INFORMATION FOR SEQ ID NO:126:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: CDNA  (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:  ACACACACTTG AATAGTAAAA TAGAAACTGA GCTGAAATTT CTAATTCACT TTCTAACCAT	CAATGTGCTG GGTCATATGG AGGGGAGGAG ACTCTAAAAT AGCCAATTTT ATTCTCTTGG	120
(A) LENGTH: 432 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:125:  ACTITATCTA CTGGCTATGA AATAGATGGT GGAAAATTGC GTTACCAACT ATACCACTGG CTTGAAAAAG AGGTGATAGC TCTTCAGAGG ACTTGTGACT TTTGCTCAGA TGCTGAAGAA  CTACAGTCTG CATTTGGCAG AAATGAAGAT GAGAAAAATT TCAGGAAAA AAGACAGTGG TCTTCAAGAG TAAACCAACTG AGAGAAAATT TTCAGGAAAA AAGACAGTGG CATGGTGGGG GTCTTGAAGAAT TTTCATTAGTT ACTGCATACT TCATGGATCC TCATGAGTACAT TTTGAGTAACT TTGCTTAGT ACTGCATACT TCATGGATCC TCATGGAGACACT ATTTTCTAGC CCTCTTTGAT AGGAAACCTC AGGACCACT ATTTTCTAGC CCTCTTTGAG AGAACCTC AGGACCACT ATTTTCTAGC CCTCTTTGAG AGCAAACCTC AGGTGCCTCTC  (2) INFORMATION FOR SEQ ID NO:126:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:  ACACACACTTG AATAGTAAAA TAGAAACTGA GCTGAAATTT CTAATTCACT TTCTAACCAT	(2) INFORMATION FOR SEQ ID NO:125:	
(vi) ORIGINAL SOURCE:	<ul><li>(A) LENGTH: 432 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li></ul>	
(A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:125:  ACTTTATCTA CTGGCTATGA AATAGATGGT GGAAAATTGC GTTACCAACT ATACCACTGG CTTGAAAAAG AGGTGATAGC TCTTCAGAGG ACTTGTGACT TTTGCTCAGA TGCTGAAGAA 120 TTGCACAGTCT CATTTGCAG AAATGAAGAT GAATTTGGAT TAAATGAGGA TGCTGAAGAA 120 TTGCCTCACC AAACAAAAGT GAAACAACTG AGAGAAAAATT TTCAGGAAAA AAGACAGTGG CTCTTGAAGT ATCAGTCACT TTTGAGAATG TTTCTTAGTT ACTGCATACT TCATGGATCC CATGGTGGGG GTCTTGCATC TGTAAGAATG GAATTGATT TGCTTTTGCA AGAATCTCAG CAGGAAACAT CAGAACCACT ATTTCTAGC CCTCTGTCAG AGCAAACCTC AGTGCCTCTC CTCTTTGCTT GT  (2) INFORMATION FOR SEQ ID NO:126:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: CDNA  (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:	(ii) MOLECULE TYPE: cDNA	
ACTTTATCTA CTGGCTATGA AATAGATGGT GGAAAATTGC GTTACCAACT ATACCACTGG CTTGAAAAAG AGGTGATAGC TCTTCAGAGG ACTTGTGACT TTTGCTCAGA TGCTGAAGAA 120 CTACAGTCTG CATTTGGCAG AAATGAAGAT GAATTTGGAT TAAATGAGGA TGCTGAAGAT 180 CTGCTCACC AAACAAAAGT GAAACAACTG AGAGAAAATT TTCAGGAAAA AAGACAGTGG CTCTTGAAGT ATCAGTCACT TTTGAGAATG TTTCTTAGTT ACTGCATACT TCATGGATCC 300 CAGGAAACAT CAGAACCACT ATTTCTAGC CCTCTGTCAG AGCAAACCTC AGAACCTCC CTCTTTGCTT GT 432 CTCTTTGCTT GT 432 CTCTTTGCT GT 432 CTCTTGCT GT 432 CTCTTTGCT GT		
CTTGAAAAAG AGGTGATAGC TCTTCAGAGG ACTTGTGACT TTTGCTCAGA TGCTGAAGAA CTTGAACAACTTG CATTTGGCAG AAATGAAGAT GAATTTGGAT TAAATGAGGA TGCTGAAGAAT TTTGCCTCACC AAACAAAAGT GAAACAACTTG AGAGAAAAATT TTCAGGAAAA AAGACAGTGG CTCTTGAAGT ATCAGTCACT TTTGAGAAATG TTTCTTAGTT ACTGCATACT TCATGGATCC AGAGAACACT TTTGAGAATG GAATTTGATT TGCTTTTGCA AGAATCTCAG AGAACACTC CATGGTGGGG GTCTTGCATC TGTAAGAATG GAATTGATTT TGCTTTTGCA AGAATCTCAG AGAATCTCAG AGAACACTC GTCAGAAACACT ATTTTCTAGC CCTCTGTCAG AGCAAACCTC AGTGCCTCTC ACGAAACACT GTAAGAACAT CAGAACCACT ATTTTCTAGC CCTCTGTCAG AGCAAACCTC AGTGCCTCTC AGGACAACCTC GTCTTTGCTT GT  (2) INFORMATION FOR SEQ ID NO:126:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 112 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (vi) ORIGINAL SOURCE:  (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:125:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 112 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (vi) ORIGINAL SOURCE:  (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:  ACACAACTTG AATAGTAAAA TAGAAACTGA GCTGAAATTT CTAATTCACT TTCTAACCAT	CTTGAAAAAG AGGTGATAGC TCTTCAGAGG ACTTGTGACT TTTGCTCAGA TGCTGAAGAA CTACAGTCTG CATTTGGCAG AAATGAAGAT GAATTTGGAT TAAATGAGGA TGCTGAAGAT TTGCCTCACC AAACAAAAGT GAAACAACTG AGAGAAAATT TTCAGGAAAA AAGACAGTGG CTCTTGAAGT ATCAGTCACT TTTGAGAATG TTTCTTAGTT ACTGCATACT TCATGGATCC CATGGTGGGG GTCTTGCATC TGTAAGAATG GAATTGATTT TGCTTTTGCA AGAATCTCAG CAGGAAACAT CAGAACCACT ATTTCTAGC CCTCTGTCAG AGCAAACCTC AGTGCCTCTC	120 180 240 300 360 420
(A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:  ACACAACTTG AATAGTAAAA TAGAAACTGA GCTGAAATTT CTAATTCACT TTCTAACCAT	(2) INFORMATION FOR SEQ ID NO:126:	
(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:  ACACAACTTG AATAGTAAAA TAGAAACTGA GCTGAAATTT CTAATTCACT TTCTAACCAT 60	<ul><li>(A) LENGTH: 112 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li></ul>	
(A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:  ACACAACTTG AATAGTAAAA TAGAAACTGA GCTGAAATTT CTAATTCACT TTCTAACCAT 60	(ii) MOLECULE TYPE: cDNA	
ACACAACTTG AATAGTAAAA TAGAAACTGA GCTGAAATTT CTAATTCACT TTCTAACCAT 60		
ACACAACTTG AATAGTAAAA TAGAAACTGA GCTGAAATTT CTAATTCACT TTCTAACCAT AGTAAGAATG ATATTTCCCC CCAGGGATCA CCAAATATTT ATAAAAATTT GT 112	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:	
	ACACAACTTG AATAGTAAAA TAGAAACTGA GCTGAAATTT CTAATTCACT TTCTAACCAT AGTAAGAATG ATATTTCCCC CCAGGGATCA CCAAATATTT ATAAAAATTT GT	
(2) INFORMATION FOR SEQ ID NO:127:	(2) INFORMATION FOR SEQ ID NO:127:	

(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 54 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:127:	
ACCACGAAAC CACAAACAAG ATGGAAGCAT CAATCCACTT GCCAAGCACA GCAG	54
(2) INFORMATION FOR SEQ ID NO:128:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 323 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:128:	
ACCTCATTAG TAATTGTTTT GTTGTTCAT TTTTTTCTAA TGTCTCCCT CTACCAGCTC ACCTGAGATA ACAGAATGAA AATGGAAGGA CAGCCAGATT TCTCCTTTGC TCTCTCCA TTCTCTCTGA AGTCTAGGTT ACCCATTTTG GGGACCCATT ATAGGCAATA AACACAGTTC CCAAAGCATT TGGACAGTTT CTTGTTGTT TTTAGAATGG TTTTCCTTTT TCTTAGCCTT TTCCTGCAAA AGGCTCACTC AGTCCCTTGC TTGCTCAGTG GACTGGGCTC CCCAGGGCCT AGGCTGCCTT CTTTTCCATG TCC	180
(2) INFORMATION FOR SEQ ID NO:129:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 192 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:129:	
ACATACATGT GTGTATATTT TTAAATATCA CTTTTGTATC ACTCTGACTT TTTAGCATAC TGAAAACACA CTAACATAAT TTNTGTGAAC CATGATCAGA TACAACCCAA ATCATTCATC TAGCACATTC ATCTGTGATA NAAAGATAGG TGAGTTTCAT TTCCTTCACG TTGGCCAATG GATAAACAAA GT	60 120 180 192
(2) INFORMATION FOR SEQ ID NO:130:	
(i) SEQUENCE CHARACTERISTICS:	

<ul><li>(A) LENGTH: 362 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:    (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:130:	
CCCTTTTTA TGGAATGAGT AGACTGTATG TTTGAANATT TANCCACAAC CTCTTTGACA TATAATGACG CAACAAAAAG GTGCTGTTTA GTCCTATGGT TCAGTTTATG CCCCTGACAA GTTTCCATTG TGTTTTGCCG ATCTTCTGGC TAATCGTGGT ATCCTCCATG TTATTAGTAA TTCTGTATTC CATTTTGTTA ACGCCTGGTA GATGTAACCT GCTANGAGGC TAACTTTATA CTTATTTAAA AGCTCTTATT TTGTGGTCAT TAAAATGGCA ATTTATGTGC AGCACTTTAT TGCAGCAGGA AGCACGTGTG GGTTGGTTGT AAAGCTCTTT GCTAATCTTA AAAAGTAATG GG	60 120 180 240 300 360 362
(2) INFORMATION FOR SEQ ID NO:131:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 332 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:131:	
CTTTTTGAAA GATCGTGTCC ACTCCTGTGG ACATCTTGTT TTAATGGAGT TTCCCATGCA GTANGACTGG TATGGTTGCA GCTGTCCAGA TAAAAACATT TGAAGAGCTC CAAAATGAGA GTTCTCCCAG GTTCGCCCTG CTGCTCCAAG TCTCAGCAGC AGCCTCTTTT AGGAGGCATC TTCTGAACTA GATTAAGGCA GCTTGTAAAT CTGATGTGAT TTGGTTTATT ATCCAACTAA CTTCCATCTG TTATCACTGG AGAAAGCCCA GACTCCCCAN GACNGGTACG GATTGTGGGC ATANAAGGAT TGGGTGAAGC TGGCGTTGTG GT	60 120 180 240 300 332
(a) TYPODMATION DOD ODO ID NO.132.	

- (2) INFORMATION FOR SEQ ID NO:132:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 322 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:132:

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

AGTGGCTAAG AGAACTCGAT TTCAAGCAAT TCTGAAAGGA AAACCAGCAT GACACAGAAT CTCAAATTCC CAAACAGGGG CTCTGTGGGA AAAATGAGGG AGGACCTTTG TATCTCGGGT TTTAGCAAGT TAAAATGAAN ATGACAGGAA AGGCTTATTT ATCAACAAAG AGAAGAGTTG GGATGCTTCT AAAAAAAACT TTGGTAGAGA AAATAGGAAT GCTNAATCCT AGGGAAGCCT GTAACAATCT ACAATTGGTC CA	120 180 240 300 322
(2) INFORMATION FOR SEQ ID NO:133:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 278 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:133:	
ACAAGCCTTC ACAAGTTTAA CTAAATTGGG ATTAATCTTT CTGTANTTAT CTGCATAATT CTTGTTTTTC TTTCCATCTG GCTCCTGGGT TGACAATTTG TGGAAACAAC TCTATTGCTA CTATTTAAAA AAAATCACAA ATCTTTCCCT TTAAGCTATG TTNAATTCAA ACTATTCCTG CTATTCCTGT TTTGTCAAAG AAATTATATT TTTCAAAATA TGTNTATTTG TTTGATGGGT CCCACGAAAC ACTAATAAAA ACCACAGAGA CCAGCCTG	60 120 180 240 278
(2) INFORMATION FOR SEQ ID NO:134:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 121 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:134:	
GTTTANAAAA CTTGTTTAGC TCCATAGAGG AAAGAATGTT AAACTTTGTA TTTTAAAACA TGATTCTCTG AGGTTAAACT TGGTTTTCAA ATGTTATTTT TACTTGTATT TTGCTTTTGG T	60 120 121
(2) INFORMATION FOR SEQ ID NO:135:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:         <ul> <li>(A) LENGTH: 350 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>	
(ii) MOLECULE TYPE: cDNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:135:

ACTTANAACC	ATGCCTAGCA	CATCAGAATC	CCTCAAAGAA	CATCAGTATA	ATCCTATACC	60
ATANCAAGTG	GTGACTGGTT	AAGCGTGCGA	CAAAGGTCAG	CTGGCACATT	ACTTGTGTGC	120
AAACTTGATA	CTTTTGTTCT	AAGTAGGAAC	TAGTATACAG	TNCCTAGGAN	TGGTACTCCA	180
GGGTGCCCCC	CAACTCCTGC	AGCCGCTCCT	CTGTGCCAGN	CCCTGNAAGG	AACTTTCGCT	240
CCACCTCAAT	CAAGCCCTGG	GCCATGCTAC	CTGCAATTGG	CTGAACAAAC	GTTTGCTGAG	300
TTCCCAAGGA	TGCAAAGCCT	GGTGCTCAAC	TCCTGGGGCG	TCAACTCAGT		350

- (2) INFORMATION FOR SEQ ID NO:136:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 399 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:136:

TGTACCGTGA	AGACGACAGA	AGTTGCATGG	CAGGGACAGG	GCAGGGCCGA	GGCCAGGGTT	60
		NTCCTCGTGA				120
		AANAAGCCAG				180
		CCACAGGTGG				240
		TCAGGTGTNA				300
		GCCATCCCCA				360
		CCAGNTGTTC				399

- (2) INFORMATION FOR SEQ ID NO:137:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 165 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:137:

ACTGGTGTGG	TNGGGGGTGA	TGCTGGTGGT	ANAAGTTGAN	GTGACTTCAN	GATGGTGTGT	60
					AGCTTCGGGA	
TTGGCTGGTC						165

- (2) INFORMATION FOR SEQ ID NO:138:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 338 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single

(D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:138: ACTCACTGGA ATGCCACATT CACAACAGAA TCAGAGGTCT GTGAAAACAT TAATGGCTCC 60 TTAACTTCTC CAGTAAGAAT CAGGGACTTG AAATGGAAAC GTTAACAGCC ACATGCCCAA 120 TGCTGGGCAG TCTCCCATGC CTTCCACAGT GAAAGGGCTT GAGAAAAATC ACATCCAATG 180 TCATGTGTTT CCAGCCACAC CAAAAGGTGC TTGGGGTGGA GGGCTGGGGG CATANANGGT 240 CANGCCTCAG GAAGCCTCAA GTTCCATTCA GCTTTGCCAC TGTACATTCC CCATNTTTAA 300 338 AAAAACTGAT GCCTTTTTTT TTTTTTTTTTT TAAAATTC (2) INFORMATION FOR SEQ ID NO:139: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:139: GGGAATCTTG GTTTTTGGCA TCTGGTTTGC CTATAGCCGA GGCCACTTTG ACAGAACAAA 60 GAAAGGGACT TCGAGTAAGA AGGTGATTTA CAGCCAGCCT AGTGCCCGAA GTGAAGGAGA 120 ATTCAAACAG ACCTCGTCAT TCCTGGTGTG AGCCTGGTCG GCTCACCGCC TATCATCTGC 180 ATTTGCCTTA CTCAGGTGCT ACCGGACTCT GGCCCCTGAT GTCTGTAGTT TCACAGGATG 240 CCTTATTTGT CTTCTACACC CCACAGGGCC CCCTACTTCT TCGGATGTGT TTTTAATAAT 300 GTCAGCTATG TGCCCCATCC TCCTTCATGC CCTCCCTCCC TTTCCTACCA CTGCTGAGTG 360 382 GCCTGGAACT TGTTTAAAGT GT (2) INFORMATION FOR SEQ ID NO:140: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:140: 60 ACCAAANCTT CTTTCTGTTG TGTTNGATTT TACTATAGGG GTTTNGCTTN TTCTAAANAT ACTITICATI TAACANCITI TGTTAAGTGT CAGGCTGCAC TTTGCTCCAT ANAATTATTG 120 TTTTCACATT TCAACTTGTA TGTGTTTGTC TCTTANAGCA TTGGTGAAAT CACATATTTT 180 200 ATATTCAGCA TAAAGGAGAA

### (2) INFORMATION FOR SEQ ID NO:141:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 335 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:141:

ACTTTATTT	CAAAACACTC	ATATGTTGCA	AAAAACACAT	AGAAAAATAA	AGTTTGGTGG	60
CCCTCCTCAC	πλλα σππσα Δ	GTCACAGACT	TTTATGTGAC	AGATTGGAGC	AGGGTTTGTT	120
ATGCATGTAG	IMMCIICM	CTAATTTATT	ΝΝΝΟΝΟΚΑΤΑ	GAAACAGGCT	GTCTGGGTGA	180
ATGCATGTAG	AGAACCCAAA	CIAMITIATI	TO CATCOTO	ATAMACTAGC	TCTTCAGATG	240
AATGGTTCTG	AGAACCATCC	AATTCACCTG	TCAGATGCTG	ATANACIAGE	ACCAACATCG	300
				ATGGGGAAAA	AGCAAGATGG	335
ATTCACAAAC	CAAGTAATTT	TAAACAAAGA	CACTT			333

- (2) INFORMATION FOR SEQ ID NO:142:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 459 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:142:

ACCAGGTTAA TATTGCCACA	TATATCCTTT	CCAATTGCGG	GCTAAACAGA	CGTGTATTTA	60
GGGTTGTTTA AAGACAACCC	AGCTTAATAT	CAAGAGAAAT	TGTGACCTTT	CATGGAGTAT	120
CTGATGGAGA AAACACTGAG	TTTTGACAAA	TCTTATTTTA	TTCAGATAGC	AGTCTGATCA	180
CACATGGTCC AACAACACTC	AAATAATAAA	TCAAATATNA	TCAGATGTTA	AAGATTGGTC	240
TTCAAACATC ATAGCCAATG	ATGCCCCGCT	TGCCTATAAT	CTCTCCGACA	TAAAACCACA	300
TCAACACCTC AGTGGCCACC	AAACCATTCA	GCACAGCTTC	CTTAACTGTG	AGCTGTTTGA	360
AGCTACCAGT CTGAGCACTA	TTGACTATNT	TTTTCANGCT	CTGAATAGCT	CTAGGGATCT	420
CAGCANGGGT GGGAGGAACC					459
CMGCWMGGGI GGGWGGWGG					

- (2) INFORMATION FOR SEQ ID NO:143:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 140 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:

CAA

(A) ORGANISM: Homo sapiens	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:143:	
ACATTTCCTT CCACCAAGTC AGGACTCCTG GCTTCTGTGG GAGTTCTTAT CACCTGAGGG AAATCCAAAC AGTCTCTCCT AGAAAGGAAT AGTGTCACCA ACCCCACCCA TCTCCCTGAG ACCATCCGAC TTCCCTGTGT	60 120 140
(2) INFORMATION FOR SEQ ID NO:144:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 164 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:144:	
ACTTCAGTAA CAACATACAA TAACAACATT AAGTGTATAT TGCCATCTTT GTCATTTCT ATCTATACCA CTCTCCCTTC TGAAAACAAN AATCACTANC CAATCACTTA TACAAATTTG AGGCAATTAA TCCATATTTG TTTTCAATAA GGAAAAAAAG ATGT	60 120 164
(2) INFORMATION FOR SEQ ID NO:145:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 303 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:145:	
ACGTAGACCA TCCAACTTTG TATTTGTAAT GGCAAACATC CAGNAGCAAT TCCTAAACAA ACTGGAGGGT ATTTATACCC AATTATCCCA TTCATTAACA TGCCCTCCTC CTCAGGCTAT GCAGGACAGC TATCATAAGT CGGCCCAGGC ATCCAGATAC TACCATTTGT ATAAACTTCA	60 120 180
GTAGGGGAGT CCATCCAAGT GACAGGTCTA ATCAAAGGAG GAAATGGAAC ATAAGCCCAG	240

TAGTAAAATN TTGCTTAGCT GAAACAGCCA CAAAAGACTT ACCGCCGTGG TGATTACCAT

300 303

- (2) INFORMATION FOR SEQ ID NO:146:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 327 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

ACTGGAACAC ATACCCACAT CTTTGTTCTG AGGGATAATT TTCTGATAAA GTCTTGCTGT  ATATTCAAGC ACATAGTTA TATATTATC AGTTCCATGT TTATAGCCTA GTT  (2) INFORMATION FOR SEQ ID NO:148:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 477 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (vi) ORIGINAL SOURCE:  (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:  ACAACCACTT TATCTCATCG AATTTTTAAC CCAAACTCAC TCACTGTGCC TTTCTATCCT  ATGGGATATA TTATTTGATG CTCCATTTCA TCACACATAT ATGAATAATA CACTCATACT  GCCCTACTAC CTGCTGCAAT AATCACATTC CCTTCCTGTC CTGACCCTGA AGCCATTGGG  GTGGTCCTAG TGGCCATCAG TCCANGCCTG CACCTTGAGC CCTTGAGCTC CATTGCTCAC  240  240	<pre>(vi) ORIGINAL SOURCE:    (A) ORGANISM: Homo sapiens</pre>	
ACTGGCCTGG AGTGACTCAT TGCTCTGGTT GGTTGAGAGA GCTCCTTTGC CAACAGGCCT CCAAGTCAGG GCTGGGATTT GTTTCCTTTC CAACATTCTAG CAACAATATG CTGCCACTT CCTGAACAGG GAGGGTGGGA GGAGCAGGA TGGAACATTCTAG CAACAATATG CTGCCACTT CAACAGTCAGG GAGGGTGGA CAACACTACT GATGACCAAGC TGCCACTTTC TAAAGTTAGCC AGACTTGCCC CTGGGCCTGT CACACCTACT GATGACCAAGC TGCCACCTTTC TAAAGTTAGCC (2) INFORMATION FOR SEQ ID NO:147:  (i) SEQUENCE CHARACTERISTICS: (A) LEMGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: CDNA  (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:147:  ACATTGTTTT TTTGAGATAA AGCATTGANA GAGCTCCCT TAACGTGACA CAATGGAAGG ACTGGAACAC ATACCCACAT CTTTGTTCTG AGGGATAATT TTCTGATAAA GTCTTGCTGT  (2) INFORMATION FOR SEQ ID NO:148:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 477 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:  ACAACCACTT TATCTCATCG AATTTTTAAC CCAAACTCAC TCACTGTGCC TTTCTATCCT ATGGGATATA TTATTTGATG CTCCATTTCA TCACACATAT ATGAATAATA CACTCATACT ACAACCACTT TATCTCATCG AATTTTTAAC CCAAACTCAC TCACTGTGCC TTTCTATCCT ATGGGATATA TTATTTTGATG CTCCAACTCTAC TCACACTCTAC TTCACCCTGA AGCCATTTGCT CCCCTACTAC CTGCTGCAAT AATCACATTC CCTTCCTGTC CTGACCCTGA AGCCATTGCTCAC CTGCTGATCTCA TCACACCTCAT CTGCTCCTCCC CTGACCCTGA AGCCATTGCTCAC CTGCTGATCTCAC CTGCTCTGTC CTGACCCTGA AGCCATTGTCAC CTGCTCTGTC CTGACCCTGA AGCCATTGCTCAC CTGCTCTGACCTTCA TCCACCCTGA AGCCATTGCTCAC CTGCTCTGACCTTCA TCCACCCTGA AGCCATTGCTCAC CTGCTCTGTC CTGACCCTGA AGCCATTGCTCAC CTGCTCTGTC CTGACCCTGA AGCCATTGCTCAC CTGCTCTGTC CTGACCCTGA AGCCATTGCTCAC TCCATGCTCAC CTCCTCTGTC CTGACCCTGA AGCCATTGCTCAC TCCATGCTCAC CTCCTCTGTC CTGACCCTGA AGCCATTGCTCAC TCCATGCTCAC TCCATGCTCAC TCCATGCTCAC TCCATGCTCAC CTCCTGTCACC CTGACCCTGA AGCCATTGCTCAC TCCATGCTCAC TC	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:146:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 173 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (vi) ORIGINAL SOURCE:  (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:147:  ACATTGTTTT TTTGAGATAA AGCATTGANA GAGCTCTCCT TAACGTGACA CAATGGAAGG ACTGGAACAC ATACCCACAT CTTTGTTCTG AGGGATAATT TTCTGATAAA GTCTTGCTGT ATATTCAAGC ACATATGTTA TATATTATTC AGTTCCATGT TTATAGCCTA GTT  (2) INFORMATION FOR SEQ ID NO:148:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 477 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (vi) ORIGINAL SOURCE:  (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:  ACAACCACTT TATCTCATCG AATTTTTAAC CCAAACTCAC TCACTGTGCC TTTCTATCCT ATGGGATATA TTATTTGATG CTCCATTTCA TCACACATAT ATGAATAATA CACTCATACT ATGGGATATA TTATTTGATG CTCCATTTCA TCACACATAT ATGAATAATA CACTCATACT ATGGGATATA TTATTTGATG CTCCATTTCA TCACACATAT ATGAATAATA CACTCATACT TAGGGCATTCAC CTCCTTGCTCAC CCTTCCTGTC CTGACCCT CATTTCCAC 240	ACTGGCCTGG AGTGACTCAT TGCTCTGGTT GGTTGAGAGA GCTCCTTTGC CAACAGGCCT CCAAGTCAGG GCTGGGATTT GTTTCCTTTC CACATTCTAG CAACAATATG CTGGCCACTT CCTGAACAGG GAGGGTGGGA GGAGCCAGCA TGGAACAAGC TGCCACTTTC TAAAGTAGCC AGACTTGCCC CTGGGCCTGT CACACCTACT GATGACCTTC TGTGCCTGCA GGATGGAATG	120 180 240 300
(A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:147:  ACATTGTTTT TTTGAGATAA AGCATTGANA GAGCTCTCT TAACGTGACA CAATGGAAGG ACTGGAACAC ATACCCACAT CTTTGTTCTG AGGGATAATT TTCTGATAAA GTCTTGCTGT ATATTCAAGC ACATATGTTA TATATTATTC AGTTCCATGT TTATAGCCTA GTT  (2) INFORMATION FOR SEQ ID NO:148:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 477 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:  ACAACCACTT TATCTCATCG AATTTTTAAC CCAAACTCAC TCACTGTGCC TTTCTATCCT ATGGGATATA TTATTTGATG CTCCATTTCA TCACACATAT ATGAATAATA CACTCATACT GCCCTTACTC CTGCTGCAAT AATCACATTC CTTCCTGTC CTGACCCTGA AGCCATTGGG GTGGTCCTAG CGCCATCAG TCCATTGCACC TCATTGCTCACC TGGGGCTACAC CTGCTGAGAT AATCACATTC CCTTCCTGTC CTGACCCTGA AGCCATTGGG GTGGTCCTAGC CTGCTGAGC TCCATTGCACCCTGA AGCCATTGGG GTGGTCTCTAG CGGCCATCAG TCCANTGCTCCACC	(2) INFORMATION FOR SEQ ID NO:147:	
(vi) ORIGINAL SOURCE:	<ul><li>(A) LENGTH: 173 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li></ul>	
(A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:147:  ACATTGTTTT TTTGAGATAA AGCATTGANA GAGCTCTCCT TAACGTGACA CAATGGAAGG ACTGGAACAC ATACCCACAT CTTTGTTCTG AGGGATAATT TTCTGATAAA GTCTTGCTGT 120 ATATTCAAGC ACATATGTTA TATATTATTC AGTTCCATGT TTATAGCCTA GTT 173  (2) INFORMATION FOR SEQ ID NO:148:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 477 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (vi) ORIGINAL SOURCE:  (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:  ACAACCACTT TATCTCATCG AATTTTTAAC CCAAACTCAC TCACTGTGCC TTTCTATCCT ATGGGATATA TTATTTGATG CTCCATTTCA TCACACATAT ATGAATAATA CACTCATACT 120 ATGGGATATA TTATTTGATG CTCCATTTCA TCACACATAT ATGAATAATA CACTCATACT 120 ATGGGATCTAG TGGCCATCAG TCCANGCCTG CACCTTGAGC CTGACCCTGA AGCCATTGGG 180 ATGGGGATCTAG TGGCCATCAG TCCANGCCTG CACCTTGAGC CCTTGACCTCAC 240	(ii) MOLECULE TYPE: cDNA	
ACATTGTTT TTTGAGATAA AGCATTGANA GAGCTCTCCT TAACGTGACA CAATGGAAGG ACTGGAACAC ATACCCACAT CTTTGTTCTG AGGGATAATT TTCTGATAAA GTCTTGCTGT ATATTCAAGC ACATATGTTA TATATTATTC AGTTCCATGT TTATAGCCTA GTT  (2) INFORMATION FOR SEQ ID NO:148:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 477 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: CDNA  (vi) ORIGINAL SOURCE:  (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:  ACAACCACTT TATCTCATCG AATTTTTAAC CCAAACTCAC TCACTGTGCC TTTCTATCCT ATGGGATATA TTATTTGATG CTCCATTCA TCACACATAT ATGAATAATA CACTCATACT AGCCCTACTAC CTGCTGCACT AATCACATTC CCTTCCTGTC CTGACCCTGA AGCCATTGGG GTGGTCCTAG TGGCCATCAG TCCANGCCTG CACCTTGAGCT CATTGCTCAC CATTGCTCAC TCCATTGCTC CATTGCTCAC TCCATTGCTCAC TCCATTGCTCATTCATTCATTCATTCATTCATTCATTCAT		
ACTGGAACAC ATACCCACAT CTTTGTTCTG AGGGATAATT TTCTGATAAA GTCTTGCTGT ATATTCAAGC ACATATGTTA TATATTATTC AGTTCCATGT TTATAGCCTA GTT  (2) INFORMATION FOR SEQ ID NO:148:  (i) SEQUENCE CHARACTERISTICS:	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:147:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 477 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (vi) ORIGINAL SOURCE:  (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:  ACAACCACTT TATCTCATCG AATTTTTAAC CCAAACTCAC TCACTGTGCC TTTCTATCCT ATGGGATATA TTATTTGATG CTCCATTTCA TCACCACATAT ATGAATAATA CACTCATACT 120  GCCTACTAC CTGCTGCAAT AATCACATTC CCTTCCTGTC CTGACCCTGA AGCCATTGGG 180  GTGGTCCTAG TGGCCATCAG TCCANGCCTG CACCTTGAGCT CATTGCTCAC 240	ACTGGAACAC ATACCCACAT CTTTGTTCTG AGGGATAATT TTCTGATAAA GTCTTGCTGT	60 120 173
(A) LENGTH: 477 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (vi) ORIGINAL SOURCE:  (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:  ACAACCACTT TATCTCATCG AATTTTTAAC CCAAACTCAC TCACTGTGCC TTTCTATCCT ATGGGATATA TTATTTGATG CTCCATTTCA TCACACATAT ATGAATAATA CACTCATACT GCCTACTAC CTGCTGCAAT AATCACATTC CTTCCTGTC CTGACCCTGA AGCCATTGGG 180  GTGGTCCTAG TGGCCATCAG TCCANGCCTG CACCTTGAGCT CATTGCTCAC 240	(2) INFORMATION FOR SEQ ID NO:148:	
(vi) ORIGINAL SOURCE:  (A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:  ACAACCACTT TATCTCATCG AATTTTTAAC CCAAACTCAC TCACTGTGCC TTTCTATCCT ATGGGATATA TTATTTGATG CTCCATTCA TCACACATAT ATGAATAATA CACTCATACT GCCCTACTAC CTGCTGCAAT AATCACATTC CCTTCCTGTC CTGACCCTGA AGCCATTGGG GTGGTCCTAG TGGCCATCAG TCCANGCCTG CACCTTGAGC CCTTGAGCTC CATTGCTCAC  240	<ul><li>(A) LENGTH: 477 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li></ul>	
(A) ORGANISM: Homo sapiens  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:  ACAACCACTT TATCTCATCG AATTTTTAAC CCAAACTCAC TCACTGTGCC TTTCTATCCT ATGGGATATA TTATTTGATG CTCCATTCA TCACACATAT ATGAATAATA CACTCATACT GCCCTACTAC CTGCTGCAAT AATCACATTC CCTTCCTGTC CTGACCCTGA AGCCATTGGG GTGGTCCTAG TGGCCATCAG TCCANGCCTG CACCTTGAGC CCTTGAGCTC CATTGCTCAC  240	(ii) MOLECULE TYPE: cDNA	
ACAACCACTT TATCTCATCG AATTTTAAC CCAAACTCAC TCACTGTGCC TTTCTATCCT ATGGGATATA TTATTTGATG CTCCATTCA TCACACATAT ATGAATAATA CACTCATACT GCCCTACTAC CTGCTGCAAT AATCACATTC CCTTCCTGTC CTGACCCTGA AGCCATTGGG GTGGTCCTAG TGGCCATCAG TCCANGCCTG CACCTTGAGC CCTTGAGCTC CATTGCTCAC 240		
ATGGGATATA TTATTTGATG CTCCATTTCA TCACACATAT ATGAATAATA CACTCATACT  GCCCTACTAC CTGCTGCAAT AATCACATTC CCTTCCTGTC CTGACCCTGA AGCCATTGGG  GTGGTCCTAG TGGCCATCAG TCCANGCCTG CACCTTGAGC CCTTGAGCTC CATTGCTCAC  240	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:	
- MOONNOCONO CYCNOCONCO CONTOCTO CONTOCTO ACACAGOTAL CILICIII GUIL ILIAALUULA	ATGGGATATA TTATTTGATG CTCCATTTCA TCACACATAT ATGAATAATA CACTCATACT GCCCTACTAC CTGCTGCAAT AATCACATTC CCTTCCTGTC CTGACCCTGA AGCCATTGGG	60 120 180 240 300

TAGATTATNT CCAAATTCAG TCAATTAAGT TACTATTAAC ACTCTACCCG ACATGTCCAG

CACCACTGGT AAGCCTTCTC CAGCCAACAC ACACACACA ACACNCACAC ACACACATAT

CCAGGCACAG GCTACCTCAT CTTCACAATC ACCCCTTTAA TTACCATGCT ATGGTGG

360

420

477

(2) INFORMATION FOR SEQ ID NO:149:

(1) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 207 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:149:	
ACAGTTGTAT TATAATATCA AGAAATAAAC TTGCAATGAG AGCATTTAAG AGGGAAGAAC TAACGTATTT TAGAGAGCCA AGGAAGGTTT CTGTGGGGAG TGGGATGTAA GGTGGGGCCT GATGATAAAT AAGAGTCAGC CAGGTAAGTG GGTGGTGTGG TATGGGCACA GTGAAGAACA TTTCAGGCAG AGGGAACAGC AGTGAAA	60 120 180 207
(2) INFORMATION FOR SEQ ID NO:150:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 111 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:150:	
ACCTTGATTT CATTGCTGCT CTGATGGAAA CCCAACTATC TAATTTAGCT AAAACATGGG CACTTAAATG TGGTCAGTGT TTGGACTTGT TAACTANTGG CATCTTTGGG T	60 111
(2) INFORMATION FOR SEQ ID NO:151:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 196 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:151:	
AGCGCGGCAG GTCATATTGA ACATTCCAGA TACCTATCAT TACTCGATGC TGTTGATAAC AGCAAGATGG CTTTGAACTC AGGGTCACCA CCAGCTATTG GACCTTACTA TGAAAACCAT GGATACCAAC CGGAAAACCC CTATCCCGCA CAGCCCACTG TGGTCCCCAC TGTCTACGAG GTGCATCCGG CTCAGT	60 120 180 196
(2) INFORMATION FOR SEQ ID NO:152:	

<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 132 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:152:	
CTTCCCCTT TCATCTAGTG GTGGAAACCT GATGCTTAT GTTGTGTGTGT	60 120 132
(2) INFORMATION FOR SEQ ID NO:153:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 285 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:153:	
ACAANACCCA NGANAGGCCA CTGGCCGTGG TGTCATGGCC TCCAAACATG AAAGTGTCAG CTTCTGCTCT TATGTCCTCA TCTGACAACT CTTTACCATT TTTATCCTCG CTCAGCAGGA GCACATCAAT AAAGTCCAAA GTCTTGGACT TGGCCTTGGC TTGGAGGAAG TCATCAACAC CCTGGCTAGT GAGGGTGCGG CGCCGCTCCT GGATGACGGC ATCTGTGAAG TCGTGCACCA GTCTGCAGGC CCTGTGGAAG CGCCGTCCAC ACGGAGTNAG GAATT	60 120 180 240 285
(2) INFORMATION FOR SEQ ID NO:154:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 333 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:154:	
ACCACAGTCC TGTTGGGCCA GGGCTTCATG ACCCTTTCTG TGAAAAGCCA TATTATCACC ACCCCAAATT TTTCCTTAAA TATCTTTAAC TGAAGGGGTC AGCCTCTTGA CTGCAAAGAC CCTAAGCCGG TTACACAGCT AACTCCCACT GGCCCTGATT TGTGAAATTG CTGCTGCCTG ATTGGCACAG GAGTCGAAGG TGTTCAGCTC CCCTCCTCCG TGGAACGAGA CTCTGATTTG AGTTTCACAA ATTCTCGGGC CACCTCGTCA TTGCTCCTCT GAAATAAAAT CCGGAGAATG	60 120 180 240 300

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

GTCAGGCCTG TCTCATCCAT ATGGATCTTC CGG	333
(2) INFORMATION FOR SEQ ID NO:155:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 308 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:155:	
ACTGGAAATA ATAAAACCCA CATCACAGTG TTGTGTCAAA GATCATCAGG GCATGGATGG GAAAGTGCTT TGGGAACTGT AAAGTGCCTA ACACATGATC GATGATTTTT GTTATAATAT TTGAATCACG GTGCATACAA ACTCTCCTGC CTGCTCCTCC TGGGCCCCAG CCCCAGCCCC ATCACAGCTC ACTGCTCTGT TCATCCAGGC CCAGCATGTA GTGGCTGATT CTTCTTGGCT GCTTTTAGCC TCCANAAGTT TCTCTGAAGC CAACCAAACC TCTANGTGTA AGGCATGCTG GCCCTGGT	60 120 180 240 300 308
(2) INFORMATION FOR SEQ ID NO:156:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 295 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:156:	
ACCTTGCTCG GTGCTTGGAA CATATTAGGA ACTCAAAATA TGAGATGATA ACAGTGCCTA TTATTGATTA CTGAGAGAAC TGTTAGACAT TTAGTTGAAG ATTTTCTACA CAGGAACTGA GAATAGGAGA TTATGTTTGG CCCTCATATT CTCCCTATC CTCCTTGCCT CATTCTATGT CTAATATATT CTCAATCAAA TAAGGTTAGC ATAATCAGGA AATCGACCAA ATACCAATAT AAAACCAGAT GTCTATCCTT AAGATTTCA AATAGAAAAC AAATTAACAG ACTAT	60 120 180 240 295
(2) INFORMATION FOR SEQ ID NO:157:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 126 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:157:

ACAAGTTTAA ATAGTGCTGT	CACTGTGCAT	GTGCTGAAAT	GTGAAATĊCA	CCACATTTCT	60
GAAGAGCAAA ACAAATTCTG	TCATGTAATC	TCTATCTTGG	GTCGTGGGTA	TATCTGTCCC	120
CTTAGT					126

- (2) INFORMATION FOR SEQ ID NO:158:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 442 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:158:

ACCCACTGGT	CTTGGAAACA	CCCATCCTTA	ATACGATGAT	TTTTCTGTCG	TGTGAAAATG	60
AANCCAGCAG	GCTGCCCCTA	GTCAGTCCTT	CCTTCCAGAG	AAAAAGAGAT	TTGAGAAAGT	120
GCCTGGGTAA	TTCACCATTA	ATTTCCTCCC	CCAAACTCTC	TGAGTCTTCC	CTTAATATTT	180
CTGGTGGTTC	TGACCAAAGC	AGGTCATGGT	TTGTTGAGCA	TTTGGGATCC	CAGTGAAGTA	240
NATGTTTGTA	GCCTTGCATA	CTTAGCCCTT	CCCACGCACA	AACGGAGTGG	CAGAGTGGTG	300
CCAACCCTGT	TTTCCCAGTC	CACGTAGACA	GATTCACAGT	GCGGAATTCT	GGAAGCTGGA	360
NACAGACGGG	CTCTTTGCAG	AGCCGGGACT	CTGAGANGGA	CATGAGGGCC	TCTGCCTCTG	420
TGTTCATTCT	CTGATGTCCT	GT				442

- (2) INFORMATION FOR SEQ ID NO:159:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 498 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:159:

ACTTCCAGGT	AACGTTGTTG	TTTCCGTTGA	GCCTGAACTG	ATGGGTGACG	TTGTAGGTTC	60
TCCAACAAGA						120
GCTGCTGTGG						180
GTGTGTTGTT (	GGANTTGAGC	TCGGGCGGCT	GTGGTAGGTT	GTGGGCTCTT	CAACAGGGGC	240
TGCTGTGGTG	CCGGGANGTG	AANGTGTTGT	GTCACTTGAG	CTTGGCCAGC	TCTGGAAAGT	300
ANTANATTCT '	TCCTGAAGGC	CAGCGCTTGT	GGAGCTGGCA	NGGGTCANTG	TTGTGTGTAA	360
CGAACCAGTG (	CTGCTGTGGG	TGGGTGTANA	TCCTCCACAA	AGCCTGAAGT	TATGGTGTCN	420
TCAGGTAANA	ATGTGGTTTC	AGTGTCCCTG	GGCNGCTGTG	GAAGGTTGTA	NATTGTCACC	480
AAGGGAATAA	GCTGTGGT					498

- (2) INFORMATION FOR SEQ ID NO:160:
  - (i) SEQUENCE CHARACTERISTICS:

<ul><li>(A) LENGTH: 380 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:160:	
ACCTGCATCC AGCTTCCCTG CCAAACTCAC AAGGAGACAT CAACCTCTAG ACAGGGAAAC AGCTTCAGGA TACTTCCAGG AGACAGAGCC ACCAGCAGCA AAACAAATAT TCCCATGCCT GGAGCATGGC ATAGAGGAAG CTGANAAATG TGGGGTCTGA GGAAGCCATT TGAGTCTGGC CACTAGACAT CTCATCAGCC ACTTGTGTA AGAGATGCCC CATGACCCCA GATGCCTCTC CCACCCTTAC CTCCATCTCA CACACTTGAG CTTTCCACTC TGTATAAATTC TAACATCCTG GAGAAAAATG GCAGTTTGAC CGAACCTGTT CACAACGGTA GAGGCTGATT TCTAACGAAA CTTGTAGAAT GAAGCCTGGA	60 120 180 240 300 360 380
(2) INFORMATION FOR SEQ ID NO:161:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 114 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:161:	
ACTCCACATC CCCTCTGAGC AGGCGGTTGT CGTTCAAGGT GTATTTGGCC TTGCCTGTCA CACTGTCCAC TGGCCCCTTA TCCACTTGGT GCTTAATCCC TCGAAAGAGC ATGT	60 114
(2) INFORMATION FOR SEQ ID NO:162:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 177 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:162:	
ACTTTCTGAA TCGAATCAAA TGATACTTAG TGTAGTTTTA ATATCCTCAT ATATATCAAA GTTTTACTAC TCTGATAATT TTGTAAACCA GGTAACCAGA ACATCCAGTC ATACAGCTTT TGGTGATATA TAACTTGGCA ATAACCCAGT CTGGTGATAC ATAAAACTAC TCACTGT	60 120 177
(2) INFORMATION FOR SEQ ID NO:163:	

(1) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 137 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:163:	
CATTTATACA GACAGGCGTG AAGACATTCA CGACAAAAAC GCGAAATTCT ATCCCGTGAC CANAGAAGGC AGCTACGGCT ACTCCTACAT CCTGGCGTGG GTGGCCTTCG CCTGCACCTT CATCAGCGGC ATGATGT	60 120 137
(2) INFORMATION FOR SEQ ID NO:164:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 469 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:164:	
CTTATCACAA TGAATGTTCT CCTGGGCAGC GTTGTGATCT TTGCCACCTT CGTGACTTTA TGCAATGCAT CATGCTATTT CATACCTAAT GAGGGAGTTC CAGGAGATTC AACCAGGAAA TGCATGGATC TCAAAGGAAA CAAACACCCA ATAAACTCGG AGTGGCAGAC TGACAACTGT GAGACATGCA CTTGCTACGA AACAGAAATT TCATGTTGCA CCCTTGTTTC TACACCTGTG GGTTATGACA AAGACAACTG CCAAAGAATC TTCAAGAAGG AGGACTGCAA GTATATCGTG GTGGAGAAGA AGGACCCAAA AAAGACCTGT TCTGTCAGTG AATGGATAAT CTAATGTGCT TCTAGTAGGC ACAGGGCTCC CAGGCCAGGC CTCATTCTCC TCTGGCCTCT AATAGTCAAT GATTGTGTAG CCATGCCTAT CAGTAAAAAG ATNTTTGAGC AAACACTTT	60 120 180 240 300 360 420 469
(2) INFORMATION FOR SEQ ID NO:165:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 195 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA	
(D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA	

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:165:

ATCCGCTGTC ATCCACTATT CCTTGGCTAG AGTAAAAATT ATTCTTATAG CCCATGTCCC TGCAGGCCGC CCGCCCGTAG TTCTCGTTCC AGTCGTCTTG GCACACAGGG TGCCAGGACT TCCTCTGAGA TGAGT	120 180 195
(2) INFORMATION FOR SEQ ID NO:166:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 383 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:166:	
ACATCTTAGT AGTGTGGCAC ATCAGGGGC CATCAGGGTC ACAGTCACTC ATAGCCTCGC CGAGGTCGGA GTCCACACA CCGGTGTAGG TGTGCTCAAT CTTGGGCTTG GCGCCCACCT TTGGAGAAGG GATATGCTGC ACACACATGT CCACAAAGCC TGTGAACTCG CCAAAGAATT TTTGCAGACC AGCCTGAGCA AGGGGCGGAT GTTCAGCTTC AGCTCCTCT TCGTCAGGTG GATGCCAACC TCGTCTANGG TCCGTGGGAA GCTGGTGTCC ACNTCACCTA CAACCTGGGC GANGATCTTA TAAAGAGGCT CCNAGATAAA CTCCACGAAA CTTCTCTGGG AGCTGCTAGT NGGGGCCTTT TTGGTGAACT TTC	60 120 180 240 300 360 383
(2) INFORMATION FOR SEQ ID NO:167:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 247 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:167:	
ACAGAGCCAG ACCTTGGCCA TAAATGAANC AGAGATTAAG ACTAAACCCC AAGTCGANAT TGGAGCAGAA ACTGGAGCAA GAAGTGGGCC TGGGGCTGAA GTAGAGACCA AGGCCACTGC TATANCCATA CACAGAGCCA ACTCTCAGGC CAAGGCNATG GTTGGGGCAG ANCCAGAGAC TCAATCTGAN TCCAAAGTGG TGGCTGGAAC ACTGGTCATG ACANAGGCAG TGACTCTGAC TGANGTC	60 120 180 240 247
(2) INFORMATION FOR SEO ID NO:168:	

- - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 273 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:168:

ACTTCTAAGT TTTCTAGAAG	TGGAAGGATT	GTANTCATCC	TGAAAATGGG	TTTACTTCAA	60
AATCCCTCAN CCTTGTTCTT	CACNACTGTC	TATACTGANA	GTGTCATGTT	TCCACAAAGG	120
GCTGACACCT GAGCCTGNAT					180
AATTCCCAAC TTCCTTGCCA					240
AGTCCCAGAT ACACTCATGG					273

- (2) INFORMATION FOR SEQ ID NO:169:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 431 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:169:

ACAGCCTTGG CTTCCCCAAA C	TCCACAGTC	TCAGTGCAGA	AAGATCATCT	TCCAGCAGTC	60
AGCTCAGACC AGGGTCAAAG G	ATGTGACAT	CAACAGTTTC	TGGTTTCAGA	ACAGGTTCTA	120
CTACTGTCAA ATGACCCCCC A	TACTTCCTC	AAAGGCTGTG	GTAAGTTTTG	CACAGGTGAG	180
GGCAGCAGAA AGGGGGTANT T.	ACTGATGGA	CACCATCTTC	TCTGTATACT	CCACACTGAC	240
CTTGCCATGG GCAAAGGCCC C	TACCACAAA	AACAATAGGA	TCACTGCTGG	GCACCAGCTC	300
ACGCACATCA CTGACAACCG G	GATGGAAAA	AGAANTGCCA	ACTTTCATAC	ATCCAACTGG	360
AAAGTGATCT GATACTGGAT T	CTTAATTAC	CTTCAAAAGC	TTCTGGGGGC	CATCAGCTGC	420
TCGAACACTG A					431

- (2) INFORMATION FOR SEQ ID NO:170:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 266 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:170:

<b>ACCTGTGGGC</b>	TGGGCTGTTA	TGCCTGTGCC	GGCTGCTGAA	AGGGAGTTCA	GAGGTGGAGC	60
TCAAGGAGCT	CTGCAGGCAT	TTTGCCAANC	CTCTCCANAG	CANAGGGAGC	AACCTACACT	120
CCCCCCCTACA	AACACACCAC	ATTGGAGTCC	TGGGAGGGGG	AGTTGGGGTG	GGCATTTGAT	180
CCCCGCIAGA	AAGACACCAG	ANICACCAG	AGAGGAANGA	GACGAANATG	ANATTGGCCT	240
_			AUAUGIA MU.	01100122012		266
TCDAAGC"!'AG	GGGTCTGGCA	GGTGGA				

(2) INFORMATION FOR SEQ ID NO:171:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1248 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:171:

GGCAGCCAAA	TCATAAACGG	CGAGGACTGC	AGCCCGCACT	CGCAGCCCTG	GCAGGCGGCA	60
CTGGTCATGG	AAAACGAATT	GTTCTGCTCG	GGCGTCCTGG	TGCATCCGCA	GTGGGTGCTG	120
TCAGCCGCAC	ACTGTTTCCA	GAAGTGAGTG	CAGAGCTCCT	ACACCATCGG	GCTGGGCCTG	180
CACAGTCTTG	AGGCCGACCA	AGAGCCAGGG	AGCCAGATGG	TGGAGGCCAG	CCTCTCCGTA	240
CGGCACCCAG	AGTACAACAG	ACCCTTGCTC	GCTAACGACC	TCATGCTCAT	CAAGTTGGAC	300
GAATCCGTGT	CCGAGTCTGA	CACCATCCGG	AGCATCAGCA	TTGCTTCGCA	GTGCCCTACC	360
GCGGGGAACT	CTTGCCTCGT	TTCTGGCTGG	GGTCTGCTGG	CGAACGGCAG	AATGCCTACC	420
GTGCTGCAGT	GCGTGAACGT	GTCGGTGGTG	TCTGAGGAGG	TCTGCAGTAA	GCTCTATGAC	480
CCGCTGTACC	ACCCCAGCAT	GTTCTGCGCC	GGCGGAGGGC	AAGACCAGAA	GGACTCCTGC	540
AACGGTGACT	CTGGGGGGCC	CCTGATCTGC	AACGGGTACT	TGCAGGGCCT	TGTGTCTTTC	600
GGAAAAGCCC	CGTGTGGCCA	AGTTGGCGTG	CCAGGTGTCT	ACACCAACCT	CTGCAAATTC	660
ACTGAGTGGA	TAGAGAAAAC	CGTCCAGGCC	AGTTAACTCT	GGGGACTGGG	AACCCATGAA	720
ATTGACCCCC	AAATACATCC	TGCGGAAGGA	ATTCAGGAAT	ATCTGTTCCC	AGCCCCTCCT	780
CCCTCAGGCC	CAGGAGTCCA	GGCCCCCAGC	CCCTCCTCCC	TCAAACCAAG	GGTACAGATC	840
CCCAGCCCCT	CCTCCCTCAG	ACCCAGGAGT	CCAGACCCCC	CAGCCCCTCC	TCCCTCAGAC	900
CCAGGAGTCC	AGCCCCTCCT	CCCTCAGACC	CAGGAGTCCA	GACCCCCCAG	CCCCTCCTCC	960
CTCAGACCCA	GGGGTCCAGG	CCCCCAACCC	CTCCTCCCTC	AGACTCAGAG	GTCCAAGCCC	1020
CCAACCCNTC	ATTCCCCAGA	CCCAGAGGTC	CAGGTCCCAG	CCCCTCNTCC	CTCAGACCCA	1080
GCGGTCCAAT	GCCACCTAGA	CTNTCCCTGT	ACACAGTGCC	CCCTTGTGGC	ACGTTGACCC	1140
AACCTTACCA	GTTGGTTTTT	CATTTTTNGT	CCCTTTCCCC	TAGATCCAGA	AATAAAGTTT	1200
AAGAGAAGNG	CAAAAAAAAA	AAAAAAAAAA	AAAAAAAAA	AAAAAAA		1248

- (2) INFORMATION FOR SEQ ID NO:172:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 159 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: protein
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:172:
  - Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro 1 5 10 15
  - Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser 20 25 30
  - Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr

- (2) INFORMATION FOR SEQ ID NO:173:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1265 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:173:

GGCAGCCCGC	ACTCGCAGCC	CTGGCAGGCG	GCACTGGTCA	TGGAAAACGA	ATTGTTCTGC	60
	TGGTGCATCC	GCAGTGGGTG	CTGTCAGCCG	CACACTGTTT	CCAGAACTCC	120
	GGCTGGGCCT	GCACAGTCTT	GAGGCCGACC	AAGAGCCAGG	GAGCCAGATG	180
2	GCCTCTCCGT	ACGGCACCCA	GAGTACAACA	GACCCTTGCT	CGCTAACGAC	240
	TCAAGTTGGA	CGAATCCGTG	TCCGAGTCTG	ACACCATCCG	GAGCATCAGC	300
01011100101	AGTGCCCTAC	CGCGGGGAAC	TCTTGCCTCG	TTTCTGGCTG	GGGTCTGCTG	360
	AGCTCACGGG	TGTGTGTCTG	CCCTCTTCAA	GGAGGTCCTC	TGCCCAGTCG	420
0001210000	CCCAGAGCTC	TGCGTCCCAG	GCAGAATGCC	TACCGTGCTG	CAGTGCGTGA	480
C00000011	GGTGTCTGAG	GAGGTCTGCA	GTAAGCTCTA	TGACCCGCTG	TACCACCCCA	540
	CGCCGGCGGA	GGGCAAGACC	AGAAGGACTC	CTGCAACGGT	GACTCTGGGG	600
	CTGCAACGGG	TACTTGCAGG	GCCTTGTGTC	TTTCGGAAAA	GCCCCGTGTG	660
GCCAAGTTGG	CGTGCCAGGT	GTCTACACCA	ACCTCTGCAA	ATTCACTGAG	TGGATAGAGA	720
AAACCGTCCA	GGCCAGTTAA	CTCTGGGGAC	TGGGAACCCA	TGAAATTGAC	CCCCAAATAC	780
	AGGAATTCAG	GAATATCTGT	TCCCAGCCCC	TCCTCCCTCA	GGCCCAGGAG	840
TCCAGGCCCC	CAGCCCCTCC	TCCCTCAAAC	CAAGGGTACA	GATCCCCAGC	CCCTCCTCCC	900
	GAGTCCAGAC	CCCCCAGCCC	CTCCTCCCTC	AGACCCAGGA	GTCCAGCCCC	960
201101101	GACCCAGGAG	TCCAGACCCC	CCAGCCCCTC	CTCCCTCAGA	CCCAGGGGTT	1020
GAGGCCCCCA	ACCCCTCCTC	CTTCAGAGTC	AGAGGTCCAA	GCCCCCAACC	CCTCGTTCCC	1080
CAGACCCAGA	GGTNNAGGTC	CCAGCCCCTC	TTCCNTCAGA	CCCAGNGGTC	CAATGCCACC	1140
TAGATTTTCC	CTGNACACAG	TGCCCCCTTG	TGGNANGTTG	ACCCAACCTT	ACCAGTTGGT	1200

## TTTTCATTTT TNGTCCCTTT CCCCTAGATC CAGAAATAAA GTTTAAGAGA NGNGCAAAAA 1260 AAAAA 1265

- (2) INFORMATION FOR SEQ ID NO:174:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1459 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:174:

GGTCAGCCGC	ACACTGTTTC	CAGAAGTGAG	TGCAGAGCTC	CTACACCATC	GGGCTGGGCC	60
TGCACAGTCT	TGAGGCCGAC	CAAGAGCCAG	GGAGCCAGAT	GGTGGAGGCC	AGCCTCTCCG	120
TACGGCACCC	AGAGTACAAC	AGACCCTTGC	TCGCTAACGA	CCTCATGCTC	ATCAAGTTGG	180
ACGAATCCGT	GTCCGAGTCT	GACACCATCC	GGAGCATCAG	CATTGCTTCG	CAGTGCCCTA	240
CCGCGGGGAA	CTCTTGCCTC	GTTTCTGGCT	${\tt GGGGTCTGCT}$	GGCGAACGGT	GAGCTCACGG	300
GTGTGTGTCT	GCCCTCTTCA	AGGAGGTCCT	CTGCCCAGTC	GCGGGGGCTG	ACCCAGAGCT	360
CTGCGTCCCA	GGCAGAATGC	CTACCGTGCT	GCAGTGCGTG	AACGTGTCGG	TGGTGTCTGA	420
NGAGGTCTGC	ANTAAGCTCT	ATGACCCGCT	GTACCACCCC	ANCATGTTCT	GCGCCGGCGG	480
AGGGCAAGAC	CAGAAGGACT	CCTGCAACGT	GAGAGAGGGG	AAAGGGGAGG	GCAGGCGACT	540
CAGGGAAGGG	TGGAGAAGGG	GGAGACAGAG	ACACACAGGG	CCGCATGGCG	AGATGCAGAG	600
ATGGAGAGAC	ACACAGGGAG	ACAGTGACAA	CTAGAGAGAG	AAACTGAGAG	AAACAGAGAA	660
ATAAACACAG	GAATAAAGAG	AAGCAAAGGA	AGAGAGAAAC	AGAAACAGAC	ATGGGGAGGC	720
AGAAACACAC	ACACATAGAA	ATGCAGTTGA	CCTTCCAACA	GCATGGGGCC	TGAGGGCGGT	780
GACCTCCACC	CAATAGAAAA	TCCTCTTATA	ACTTTTGACT	CCCCAAAAAC	CTGACTAGAA	840
ATAGCCTACT	GTTGACGGGG	AGCCTTACCA	ATAACATAAA	TAGTCGATTT	ATGCATACGT	900
TTTATGCATT	CATGATATAC	CTTTGTTGGA	ATTTTTTGAT	ATTTCTAAGC	TACACAGTTC	960
${\tt GTCTGTGAAT}$	TTTTTTAAAT	TGTTGCAACT	CTCCTAAAAT	TTTTCTGATG	TGTTTATTGA	1020
AAAAATCCAA	GTATAAGTGG	ACTTGTGCAT	TCAAACCAGG	GTTGTTCAAG	GGTCAACTGT	1080
GTACCCAGAG	GGAAACAGTG	ACACAGATTC	ATAGAGGTGA	AACACGAAGA	GAAACAGGAA	1140
AAATCAAGAC	TCTACAAAGA	GGCTGGGCAG	GGTGGCTCAT	GCCTGTAATC	CCAGCACTTT	1200
GGGAGGCGAG	GCAGGCAGAT	CACTTGAGGT	AAGGAGTTCA	AGACCAGCCT	GGCCAAAATG	1260
GTGAAATCCT	GTCTGTACTA	AAAATACAAA	AGTTAGCTGG	ATATGGTGGC	AGGCGCCTGT	1320
AATCCCAGCT	ACTTGGGAGG	CTGAGGCAGG	AGAATTGCTT	GAATATGGGA		1380
GAAGTGAGTT	GAGATCACAC	CACTATACTC	CAGCTGGGGC	AACAGAGTAA	GACTCTGTCT	1440
CAAAAAAAAA	AAAAAAAA					1459

- (2) INFORMATION FOR SEQ ID NO:175:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1167 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:175:

GCGCAGCCCT	GGCAGGCGGC	ACTGGTCATG	GAAAACGAAT	TGTTCTGCTC	GGGCGTCCTG	60
GTGCATCCGC	AGTGGGTGCT	GTCAGCCGCA	CACTGTTTCC	AGAACTCCTA	CACCATCGGG	120
CTGGGCCTGC	ACAGTCTTGA	GGCCGACCAA	GAGCCAGGGA	GCCAGATGGT	GGAGGCCAGC	180
CTCTCCGTAC	GGCACCCAGA	GTACAACAGA	CTCTTGCTCG	CTAACGACCT	CATGCTCATC	240
AAGTTGGACG	AATCCGTGTC	CGAGTCTGAC	ACCATCCGGA	GCATCAGCAT	TGCTTCGCAG	300
TGCCCTACCG	CGGGGAACTC	TTGCCTCGTN	TCTGGCTGGG	GTCTGCTGGC	GAACGGCAGA	360
ATGCCTACCG	TGCTGCACTG	CGTGAACGTG	TCGGTGGTGT	CTGAGGANGT	CTGCAGTAAG	420
CTCTATGACC	CGCTGTACCA	CCCCAGCATG	TTCTGCGCCG	GCGGAGGCA	AGACCAGAAG	480
GACTCCTGCA	ACGGTGACTC	TGGGGGGCCC	CTGATCTGCA	ACGGGTACTT	GCAGGGCCTT	540
GTGTCTTTCG	GAAAAGCCCC	GTGTGGCCAA	CTTGGCGTGC	CAGGTGTCTA	CACCAACCTC	600
TGCAAATTCA	CTGAGTGGAT	AGAGAAAACC	GTCCAGNCCA	GTTAACTCTG	GGGACTGGGA	660
ACCCATGAAA	TTGACCCCCA	AATACATCCT	GCGGAANGAA	TTCAGGAATA	TCTGTTCCCA	720
GCCCCTCCTC	CCTCAGGCCC	AGGAGTCCAG	GCCCCAGCC	CCTCCTCCCT	CAAACCAAGG	780
GTACAGATCC	CCAGCCCCTC	CTCCCTCAGA	CCCAGGAGTC	CAGACCCCCC	AGCCCCTCNT	840
CCNTCAGACC	CAGGAGTCCA	GCCCCTCCTC	CNTCAGACGC	AGGAGTCCAG	ACCCCCCAGC	900
CCNTCNTCCG	TCAGACCCAG	GGGTGCAGGC	CCCCAACCCC	TCNTCCNTCA	GAGTCAGAGG	960
TCCAAGCCCC	CAACCCCTCG	TTCCCCAGAC	CCAGAGGTNC	AGGTCCCAGC	CCCTCCTCCC	1020
TCAGACCCAG	CGGTCCAATG	CCACCTAGAN	TNTCCCTGTA	CACAGTGCCC	CCTTGTGGCA	1080
NGTTGACCCA	ACCTTACCAG	TTGGTTTTTC	ATTTTTTGTC	CCTTTCCCCT	AGATCCAGAA	1140
ATAAAGTNTA	AGAGAAGCGC	AAAAAA				1167

- (2) INFORMATION FOR SEQ ID NO:176:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 205 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: protein
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:176:
  - Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp

    1 10 15
  - Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu 20 25 30
  - Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val 35 40 45
  - Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Leu Leu 50 55 60
  - Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser 65 70 75 80
  - Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly
  - Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met 100 105 110

Pro Thr Val Leu His Cys Val Asn Val Ser Val Val Ser Glu Xaa Val
115 120 125

Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala 130 135 140

Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly
145 150 155 160

Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys 165 170 175

Ala Pro Cys Gly Gln Leu Gly Val Pro Gly Val Tyr Thr Asn Leu Cys 180 185 190

Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Xaa Ser 195 200 205

- (2) INFORMATION FOR SEQ ID NO:177:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1119 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:177:

GCGCACTCGC	AGCCCTGGCA	GGCGGCACTG	GTCATGGAAA	ACGAATTGTT	CTGCTCGGGC	60
GTCCTGGTGC	ATCCGCAGTG	GGTGCTGTCA	GCCGCACACT	GTTTCCAGAA	CTCCTACACC	120
ATCGGGCTGG	GCCTGCACAG	TCTTGAGGCC	GACCAAGAGC	CAGGGAGCCA	GATGGTGGAG	180
GCCAGCCTCT	CCGTACGGCA	CCCAGAGTAC	AACAGACCCT	TGCTCGCTAA	CGACCTCATG	240
CTCATCAAGT	TGGACGAATC	CGTGTCCGAG	TCTGACACCA	TCCGGAGCAT	CAGCATTGCT	300
TCGCAGTGCC	CTACCGCGGG	GAACTCTTGC	CTCGTTTCTG	GCTGGGGTCT	GCTGGCGAAC	360
GATGCTGTGA	TTGCCATCCA	GTCCCAGACT	GTGGGAGGCT	GGGAGTGTGA	GAAGCTTTCC	420
CAACCCTGGC	AGGGTTGTAC	CATTTCGGCA	ACTTCCAGTG	CAAGGACGTC	CTGCTGCATC	480
CTCACTGGGT	GCTCACTACT	GCTCACTGCA	TCACCCGGAA	CACTGTGATC	AACTAGCCAG	540
CACCATAGTT	CTCCGAAGTC	AGACTATCAT	GATTACTGTG	TTGACTGTGC	TGTCTATTGT	600
ACTAACCATG	CCGATGTTTA	GGTGAAATTA	GCGTCACTTG	GCCTCAACCA	TCTTGGTATC	660
CAGTTATCCT	CACTGAATTG	AGATTTCCTG	CTTCAGTGTC	AGCCATTCCC	ACATAATTTC	720
TGACCTACAG	AGGTGAGGGA	TCATATAGCT	CTTCAAGGAT	GCTGGTACTC	CCCTCACAAA	780
TTCATTTCTC	CTGTTGTAGT	GAAAGGTGCG	CCCTCTGGAG	CCTCCCAGGG	TGGGTGTGCA	840
GGTCACAATG	ATGAATGTAT	GATCGTGTTC	CCATTACCCA	AAGCCTTTAA	ATCCCTCATG	900
CTCAGTACAC	CAGGGCAGGT	CTAGCATTTC	TTCATTTAGT	GTATGCTGTC	CATTCATGCA	960
ACCACCTCAG	GACTCCTGGA	TTCTCTGCCT	AGTTGAGCTC	CTGCATGCTG	CCTCCTTGGG	1020
GAGGTGAGGG	AGAGGGCCCA	TGGTTCAATG	GGATCTGTGC	AGTTGTAACA	CATTAGGTGC	1080
TTAATAAACA	GAAGCTGTGA	TGTTAAAAAA	AAAAAAAA			1119

- (2) INFORMATION FOR SEQ ID NO:178:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 164 amino acids
    - (B) TYPE: amino acid

					EDNES		_	e								
(i	i)	MOLE	CULE	TY!	PE: p	rote	ein									
(v	i)				JRCE: SM: F		sapi	lens								
(x	i)	SEQU	JENCE	E DES	SCRIE	OIT	I: SE	EQ II	ONO:	178:	:					
M 1		Glu	Asn	Glu	Leu 5	Phe	Cys	Ser	Gly	Val 10	Leu	Val	His	Pro	Gln 15	Trp
v	al	Leu	Ser	Ala 20	Ala	His	Cys	Phe	Gln 25	Asn	Ser	Tyr	Thr	Ile 30	Gly	Leu
G	ly	Leu	His 35	Ser	Leu	Glu	Ala	Asp 40	Gln	Glu	Pro	Gly	Ser 45	Gln	Met	Val
G	lu	Ala 50	Ser	Leu	Ser	Val	Arg 55	His	Pro	Glu	Tyr	Asn 60	Arg	Pro	Leu	Leu
	la 5	Asn	Asp	Leu	Met	Leu 70	Ile	Lys	Leu	Asp	Glu 75	Ser	Val	Ser	Glu	Ser 80
A	qa	Thr	Ile	Arg	Ser 85	Ile	Ser	Ile	Ala	Ser 90	Gln	Cys	Pro	Thr	Ala 95	Gly
A	sn	Ser	Cys	Leu 100		Ser	Gly	Trp	Gly 105	Leu	Leu	Ala	Asn	Asp 110	Ala	Val

115 Ser Gln Pro Trp Gln Gly Cys Thr Ile Ser Ala Thr Ser Ser Ala Arg

Ile Ala Ile Gln Ser Xaa Thr Val Gly Gly Trp Glu Cys Glu Lys Leu

Thr Ser Cys Cys Ile Leu Thr Gly Cys Ser Leu Leu Thr Ala Ser 145 155

Pro Gly Thr Leu

- (2) INFORMATION FOR SEQ ID NO:179:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 250 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:179:

CTGGAGTGCC	TTGGTGTTTC	AAGCCCCTGC	AGGAAGCAGA	ATGCACCTTC	TGAGGCACCT	60
					TGTGATTGCT	120
					CTTCTGCTGA	180
					ACCCGAAAAA	240
Δααααααα	01001.00010		•			250

### (2) INFORMATION FOR SEQ ID NO:180:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 202 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:180:

ACTAGTCCAG	TGTGGTGGAA	TTCCATTGTG	TTGGGCCCAA	CACAATGGCT	ACCTTTAACA	60
TCACCCAGAC	CCCGCCCCTG	CCCGTGCCCC	ACGCTGCTGC	TAACGACAGT	ATGATGCTTA	120
CTCTGCTACT	CGGAAACTAT	TTTTATGTAA	TTAATGTATG	CTTTCTTGTT	TATAAATGCC	180
ΤGΔΤΤΤΔΔΔΔ	ΑΑΑΑΑΑΑΑ	AA				202

### (2) INFORMATION FOR SEQ ID NO:181:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 558 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:181:

TCCYTTTGKT NAGGTTTKKG	AGACAMCCCK	AGACCTWAAN	CTGTGTCACA	GACTTCYNGG	60
AATGTTTAGG CAGTGCTAGT					120
TTATTCCTCT TTCTTCTGAA					180
GGTAGTGTGA TAGTATAAGT					240
AAATTATGCA AGTTAGTAAT	TACTCAGGGT	TAACTAAATT	ACTTTAATAT	GCTGTTGAAC	300
CTACTCTGTT CCTTGGCTAG	TATTAAAAAA	AAACAGGACT	TTGTTAGTTT	GGGAAGCCAA	360
ATTGATAATA TTCTATGTTC	TAAAAGTTGG	GCTATACATA	AATTATTAAG	AAATATGGAW	420
TTTTATTCCC AGGAATATGG	KGTTCATTTT	ATGAATATTA	CSCRGGATAG	AWGTWTGAGT	480
AAAAYCAGTT TTGGTWAATA	YGTWAATATG	TCMTAAATAA	ACAAKGCTTT	GACTTATTTC	540
САААААААА ААААААА					558

### (2) INFORMATION FOR SEQ ID NO:182:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 479 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:182:

ACAGGGWTTK	GRGGATGCTA	AGSCCCCRGA	RWTYGTTTGA	TCCAACCCTG	GCTTWTTTTC	60
AGAGGGGAAA	ATGGGGCCTA	GAAGTTACAG	MSCATYTAGY	TGGTGCGMTG	GCACCCCTGG	120
CSTCACACAG	ASTCCCGAGT	AGCTGGGACT	ACAGGCACAC	AGTCACTGAA	GCAGGCCCTG	180
		CTCCAACTTA				240
		CCAGAAAAGG				300
тастмттста	AGTCCTCTTC	CAGCCTCACT	KKGAGTCCTM	CYTGGGGGTT	GATAGGAANT	360
NTCTCTTGGC	TTTCTCAATA	AARTCTCTAT	YCATCTCATG	TTTAATTTGG	TACGCATARA	420
		GTTCTGGTTY				479

#### (2) INFORMATION FOR SEQ ID NO:183:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 384 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:183:

AGGCGGGAGC	AGAAGCTAAA	GCCAAAGCCC	AAGAAGAGTG	GCAGTGCCAG	CACTGGTGCC	60
AGTACCAGTA	CCAATAACAG	TGCCAGTGCC	AGTGCCAGCA	CCAGTGGTGG	CTTCAGTGCT	120
GGTGCCAGCC	TGACCGCCAC	TCTCACATTT	GGGCTCTTCG	CTGGCCTTGG	TGGAGCTGGT	180
		TGGTGCCTGT				240
		CTCTTCAAGC				300
CAGCACTCTA	GGCAGCCACT	ATCAATCAAT	TGAAGTTGAC	ACTCTGCATT	ARATCTATTT	360
GCCATTTCAA	AAAAAAAA	AAAA				384

#### (2) INFORMATION FOR SEQ ID NO:184:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 496 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:184:

ACCGA ATTGG	GACCGCTGGC	TTATAAGCGA	TCATGTYYNT	CCRGTATKAC	CTCAACGAGC	60
		CTGAAGAAAT				120
		CCAGATGACA				180
CCCATCCTGC	COMMONTO	ACCCAGCAAC	CCCCCCCTGT	CCTCTGAGGG	TCCCTTAAAC	240
AACGCTTCAA	GGTGCTCATG	GTTACCCCTC	COCOCCCIGI	TAACCAAACT	CTTCGGACTG	300
TGATGTCTTT	TCTGCCACCT	GTTACCCCTC	GGAGACICCG	CCACTCTCTC	CTCCCCATTC	360
TGAGCCCTGA	TGCCTTTTTG	CCAGCCATAC	TCTTTGGCAT	CCAGICICIC	ATTOCACTO	420
ATTATGCTTG	TGTGAGGCAA	TCATGGTGGC	ATCACCCATA	AAGGGAACAC	ATTIGACTIT	480
TTTTTCTCAT	ATTTTAAATT	ACTACMAGAW	TATTWMAGAW	WAAATGAWTT	GAAAAACTST	
TAAAAAAAAA	AAAAA					496

## (2) INFORMATION FOR SEQ ID NO:185:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 384 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:185:

GCTG	GTAGCC	TATGGCGKGG	CCCACGGAGG	GGCTCCTGAG	GCCACGGRAC	AGTGACTTCC	60
CAAC	TATCYT	GCGCSGCGTC	TTCTACCGTC	CCTACCTGCA	GATCTTCGGG	CAGATTCCCC	120
AGG	AGGACAT	GGACGTGGCC	CTCATGGAGC	ACAGCAACTG	YTCGTCGGAG	CCCGGCTTCT	180
GGGC	CACACCC	TCCTGGGGCC	CAGGCGGGCA	CCTGCGTCTC	CCAGTATGCC	AACTGGCTGG	240
TGGT	GCTGCT	CCTCGTCATC	TTCCTGCTCG	TGGCCAACAT	CCTGCTGGTC	AACTTGCTCA	300
ጥጥርረር	יראיינייי	CAGTTACACA	TTCGGCAAAG	TACAGGGCAA	CAGCGATCTC	TACTGGGAAG	360

### 384 GCGCAGCGTT ACCGCCTCAT CCGG (2) INFORMATION FOR SEQ ID NO:186: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 577 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:186: GAGTTAGCTC CTCCACACC TTGATGAGGT CGTCTGCAGT GGCCTCTCGC TTCATACCGC 60 TNCCATCGTC ATACTGTAGG TTTGCCACCA CYTCCTGGCA TCTTGGGGCG GCNTAATATT 120 CCAGGAAACT CTCAATCAAG TCACCGTCGA TGAAACCTGT GGGCTGGTTC TGTCTTCCGC 180 TCGGTGTGAA AGGATCTCCC AGAAGGAGTG CTCGATCTTC CCCACACTTT TGATGACTTT 240 ATTGAGTCGA TTCTGCATGT CCAGCAGGAG GTTGTACCAG CTCTCTGACA GTGAGGTCAC 300 CAGCCCTATC ATGCCGTTGA MCGTGCCGAA GARCACCGAG CCTTGTGTGG GGGKKGAAGT 360 CTCACCCAGA TTCTGCATTA CCAGAGAGCC GTGGCAAAAG ACATTGACAA ACTCGCCCAG 420 GTGGAAAAAG AMCAMCTCCT GGARGTGCTN GCCGCTCCTC GTCMGTTGGT GGCAGCGCTW 480 TCCTTTTGAC ACACAAACAA GTTAAAGGCA TTTTCAGCCC CCAGAAANTT GTCATCATCC 540 577 AAGATNTCGC ACAGCACTNA TCCAGTTGGG ATTAAAT (2) INFORMATION FOR SEQ ID NO:187: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 534 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:187: 60 AACATCTTCC TGTATAATGC TGTGTAATAT CGATCCGATN TTGTCTGSTG AGAATYCATW ACTKGGAAAA GMAACATTAA AGCCTGGACA CTGGTATTAA AATTCACAAT ATGCAACACT 120 TTAAACAGTG TGTCAATCTG CTCCCYYNAC TTTGTCATCA CCAGTCTGGG AAKAAGGGTA 180 TGCCCTATTC ACACCTGTTA AAAGGGCGCT AAGCATTTTT GATTCAACAT CTTTTTTTT 240 GACACAAGTC CGAAAAAAGC AAAAGTAAAC AGTTATYAAT TTGTTAGCCA ATTCACTTTC TTCATGGGAC AGAGCCATYT GATTTAAAAA GCAAATTGCA TAATATTGAG CTTYGGGAGC 360 TGATATTTGA GCGGAAGAGT AGCCTTTCTA CTTCACCAGA CACAACTCCC TTTCATATTG 420 GGATGTTNAC NAAAGTWATG TCTCTWACAG ATGGGATGCT TTTGTGGCAA TTCTGTTCTG 480 AGGATCTCCC AGTTTATTTA CCACTTGCAC AAGAAGGCGT TTTCTTCCTC AGGC 534 (2) INFORMATION FOR SEQ ID NO:188: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 761 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:188:

AGAAACCAGT ATCTCTNAAA ACAACCTCTC ATACCTTGTG GACCTAATTT TGTGTGCGTG

TGTGTGTGCG CGCATATTAT ATAGACAGGC ACATCTTTTT TACTTTTGTA AAAGCTTATG

60

CCTCTTTGGT	ATCTATATCT	GTGAAAGTTT	TAATGATCTG	CCATAATGTC	TTGGGGACCT	180
TTGTCTTCTG	TGTAAATGGT	ACTAGAGAAA	ACACCTATNT	TATGAGTCAA	TCTAGTTNGT	240
TTTATTCGAC	ATGAAGGAAA	TTTCCAGATN	ACAACACTNA	CAAACTCTCC	CTKGACKARG	300
GGGGACAAAG	AAAAGCAAAA	CTGAMCATAA	RAAACAATWA	CCTGGTGAGA	ARTTGCATAA	360
		TGAARNACAG				420
GCAAAAAACA	TGTACNGACT	TCCCGTTGAG	TAATGCCAAG	TTGTTTTTTT	TATNATAAAA	480
		TNAAAGTGGT				540
		AATAAGCAGT				600
		AATTTCATTA				660
TTTTTCTGTN	TTCCCAGAGC	TGAGATNTTA	GATTTTATGT	AGTATNAAGT	GAAAANTAC	720
GAAAATAATA	ACATTGAAGA	AAAANANAAA	AAANAAAAAA	A		761

### (2) INFORMATION FOR SEQ ID NO:189:

### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 482 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:189:

<b>փանականական</b>	TTTGCCGATN	CTACTATTTT	ATTGCAGGAN	GTGGGGGTGT	ATGCACCGCA	60
CACCGGGGCT	ATNAGAAGCA	AGAAGGAAGG	AGGGAGGCA	CAGCCCCTTG	CTGAGCAACA	120
AAGCCGCCTG	CTGCCTTCTC	TGTCTGTCTC	CTGGTGCAGG	CACATGGGGA	GACCTTCCCC	180
AAGGCAGGGG	CCACCAGTCC	AGGGGTGGGA	ATACAGGGGG	TGGGANGTGT	GCATAAGAAG	240
TGATAGGCAC	AGGCCACCCG	GTACAGACCC	CTCGGCTCCT	GACAGGTNGA	TTTCGACCAG	300
GTCATTGTGC	CCTGCCCAGG	CACAGCGTAN	ATCTGGAAAA	GACAGAATGC	TTTCCTTTTC	360
AAATTTGGCT	NGTCATNGAA	NGGGCANTTT	TCCAANTING	GCTNGGTCTT	GGTACNCTTG	420
GTTCGGCCCA	GCTCCNCGTC	CAAAAANTAT	TCACCCNNCT	CCNAATTGCT	TGCNGGNCCC	480
CC	-					482

## (2) INFORMATION FOR SEQ ID NO:190:

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 471 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:190:

<del>-</del> Դ.	TTTTAAAACA	GTTTTTCACA	ACAAAATTTA	TTAGAAGAAT	AGTGGTTTTG	60
AAAACTCTCG	CATCCAGTGA	GAACTACCAT	ACACCACATT	ACAGCTNGGA	ATGTNCTCCA	120
AATGTCTGGT	CAAATGATAC	AATGGAACCA	TTCAATCTTA	CACATGCACG	AAAGAACAAG	180
CGCTTTTGAC	ATACAATGCA	CAAAAAAAAA	AGGGGGGGG	GACCACATGG	ATTAAAATTT	240
TAAGTACTCA	TCACATACAT	TAAGACACAG	TTCTAGTCCA	GTCNAAAATC	AGAACTGCNT	300
TGAAAAATTT	CATGTATGCA	ATCCAACCAA	AGAACTTNAT	TGGTGATCAT	GANTNCTCTA	360
CTACATONAC	CTTGATCATT	GCCAGGAACN	AAAAGTTNAA	ANCACNCNGT	ACAAAAANAA	420
	ANTTCAACCT					471

# (2) INFORMATION FOR SEQ ID NO:191:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 402 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:191:

GAGGGATTGA	AGGTCTGTTC	TASTGTCGGM	CTGTTCAGCC	ACCAACTCTA	ACAAGTTGCT	60
GTCTTCCACT	CACTGTCTGT	AAGCTTTTTA	ACCCAGACWG	TATCTTCATA	AATAGAACAA	120
ATTCTTCACC	AGTCACATCT	TCTAGGACCT	TTTTGGATTC	AGTTAGTATA	AGCTCTTCCA	180
CTTCCTTTGT	TAAGACTTCA	TCTGGTAAAG	TCTTAAGTTT	TGTAGAAAGG	AATTYAATTG	240
CTCGTTCTCT	AACAATGTCC	TCTCCTTGAA	GTATTTGGCT	GAACAACCCA	CCTAAAGTCC	300
CTTTGTGCAT	CCATTTTAAA	TATACTTAAT	AGGGCATTGK	TNCACTAGGT	TAAATTCTGC	360
AAGAGTCATC	TGTCTGCAAA	AGTTGCGTTA	GTATATCTGC	CA		402
					IMMITCIGC	

### (2) INFORMATION FOR SEQ ID NO:192:

### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 601 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:192:

GAGCTCGGAT	CCAATAATCT	TTGTCTGAGG	GCAGCACACA	TATNCAGTGC	CATGGNAACT	60
GGTCTACCCC	ACATGGGAGC	AGCATGCCGT	AGNTATATAA	GGTCATTCCC	TGAGTCAGAC	120
ATGCYTYTTT	GAYTACCGTG	TGCCAAGTGC	TGGTGATTCT	YAACACACYT	CCATCCCGYT	180
		CTTKTCTGGA				240
		AACAAAGCGA				300
		CTGGTTTGCC				360
		AAGAACTTCT				420
		TCCCAGTCYG				480
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	540
		TCAGCAACAG				600
CCTCGATGTA	GCCGGCCAGC	GCCAAGGCAG	GCGCCGTGAG	CCCCACCAGC	AGCAGAAGCA	
G						601

## (2) INFORMATION FOR SEQ ID NO:193:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 608 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193:

ATACAGCCCA NATCCCACCA	CGAAGATGCG	CTTGTTGACT	GAGAACCTGA	TGCGGTCACT	60
GGTCCCGCTG TAGCCCCAGC					120
CCCAACGCAG GCAGMAGCGG					180
TKAAGTGCAG GAAGAGGCTG					240
CTGCAGCGAA ACTCCTCGAT					300
AGAACCTTCC GCCTGTTCTC					360
GACCAGCGGA CAAACGGCRT	TGAACAGCCG	CACCTCACGG	ATGCCCAGTG	TGTCGCGCTC	420
CAGGAMMGSC ACCAGCGTGT	CCAGGTCAAT	GTCGGTGAAG	CCCTCCGCGG	GTRATGGCGT	480
CTGCAGTGTT TTTGTCGATG	TTCTCCAGGC	ACAGGCTGGC	CAGCTGCGGT	TCATCGAAGA	540
GTCGCGCCTG CGTGAGCAGC	ATGAAGGCGT	TGTCGGCTCG	CAGTTCTTCT	TCAGGAACTC	600

608 CACGCAAT (2) INFORMATION FOR SEQ ID NO:194: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 392 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:194: GAACGGCTGG ACCTTGCCTC GCATTGTGCT TGCTGGCAGG GAATACCTTG GCAAGCAGYT CCAGTCCGAG CAGCCCCAGA CCGCTGCCGC CCGAAGCTAA GCCTGCCTCT GGCCTTCCCC 120 TCCGCCTCAA TGCAGAACCA GTAGTGGGAG CACTGTGTTT AGAGTTAAGA GTGAACACTG 180 TTTGATTTTA CTTGGGAATT TCCTCTGTTA TATAGCTTTT CCCAATGCTA ATTTCCAAAC 240 AACAACAACA AAATAACATG TTTGCCTGTT AAGTTGTATA AAAGTAGGTG ATTCTGTATT 300 TAAAGAAAAT ATTACTGTTA CATATACTGC TTGCAATTTC TGTATTTATT GKTNCTSTGG 360 392 AAATAAATAT AGTTATTAAA GGTTGTCANT CC (2) INFORMATION FOR SEQ ID NO:195: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 502 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:195: CCSTTKGAGG GGTKAGGKYC CAGTTYCCGA GTGGAAGAAA CAGGCCAGGA GAAGTGCGTG CCGAGCTGAG GCAGATGTTC CCACAGTGAC CCCCAGAGCC STGGGSTATA GTYTCTGACC 120 CCTCNCAAGG AAAGACCACS TTCTGGGGAC ATGGGCTGGA GGGCAGGACC TAGAGGCACC 180 AAGGGAAGGC CCCATTCCGG GGSTGTTCCC CGAGGAGGAA GGGAAGGGGC TCTGTGTGCC 240 CCCCASGAGG AAGAGGCCCT GAGTCCTGGG ATCAGACACC CCTTCACGTG TATCCCCACA 300 CAAATGCAAG CTCACCAAGG TCCCCTCTCA GTCCCCTTCC STACACCCTG AMCGGCCACT 360 GSCSCACACC CACCCAGAGC ACGCCACCCG CCATGGGGAR TGTGCTCAAG GARTCGCNGG 420 GCARCGTGGA CATCTNGTCC CAGAAGGGGG CAGAATCTCC AATAGANGGA CTGARCMSTT 480 502 GCTNANAAAA AAAAANAAAA AA (2) INFORMATION FOR SEQ ID NO:196: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 665 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:196: GGTTACTTGG TTTCATTGCC ACCACTTAGT GGATGTCATT TAGAACCATT TTGTCTGCTC CCTCTGGAAG CCTTGCGCAG AGCGGACTTT GTAATTGTTG GAGAATAACT GCTGAATTTT 120

WAGCTGTTTK GAGTTGATTS GCACCACTGC ACCCACAACT TCAATATGAA AACYAWTTGA

ACTWATTTAT TATCTTGTGA AAAGTATAAC AATGAAAATT TTGTTCATAC TGTATTKATC

AAGTATGATG AAAAGCAAWA GATATATATT CTTTTATTAT GTTAAATTAT GATTGCCATT

180

240

300

ATTAATCGGC	AAAATGTGGA	GTGTATGTTC	TTTTCACAGT	AATATATGCC	TTTTGTAACT	360
TCACTTGGTT	ATTTTATTGT	AAATGARTTA	CAAAATTCTT	AATTTAAGAR	AATGGTATGT	420
TTATTTATA	TCATTAATTT	CTTTCCTKGT	TTACGTWAAT	TTTGAAAAGA	WTGCATGATT	480
TCTTGACAGA	AATCGATCTT	GATGCTGTGG	AAGTAGTTTG	ACCCACATCC	CTATGAGTTT	540
TTCTTAGAAT	GTATAAAGGT	TGTAGCCCAT	CNAACTTCAA	AGAAAAAAAT	GACCACATAC	600
TTTGCAATCA	GGCTGAAATG	TGGCATGCTN	TTCTAATTCC	AACTTTATAA	ACTAGCAAAN	660
AAGTG						665

#### (2) INFORMATION FOR SEQ ID NO:197:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 492 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:197:

TTTTNTTTTT	TTTTTTTTGC	AGGAAGGATT	CCATTTATTG	TGGATGCATT	TTCACAATAT	60
ATGTTTATTG	GAGCGATCCA	TTATCAGTGA	AAAGTATCAA	GTGTTTATAA	NATTTTTAGG	120
AAGGCAGATT	CACAGAACAT	GCTNGTCNGC	TTGCAGTTTT	ACCTCGTANA	GATNACAGAG	180
AATTATAGTC	NAACCAGTAA	ACNAGGAATT	TACTTTTCAA	AAGATTAAAT	CCAAACTGAA	240
CAAAATTCTA	CCCTGAAACT	TACTCCATCC	AAATATTGGA	ATAANAGTCA	GCAGTGATAC	300
ATTCTCTTCT	GAACTTTAGA	TTTTCTAGAA	AAATATGTAA	TAGTGATCAG	GAAGAGCTCT	360
TGTTCAAAAG	TACAACNAAG	CAATGTTCCC	TTACCATAGG	CCTTAATTCA	AACTTTGATC	420
CATTTCACTC	CCATCACGGG	AGTCAATGCT	ACCTGGGACA	CTTGTATTTT	GTTCATNCTG	480
ANCNTGGCTT	AA					492

#### (2) INFORMATION FOR SEQ ID NO:198:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 478 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:198:

TTTNTTTTGN	ATTTCANTCT	GTANNAANTA	TTTTCATTAT	GTTTATTANA	AAAATATNAA	60
TGTNTCCACN	ACAAATCATN	TTACNTNAGT	AAGAGGCCAN	CTACATTGTA	CAACATACAC	120
TGAGTATATT	TTGAAAAGGA	CAAGTTTAAA	GTANACNCAT	ATTGCCGANC	ATANCACATT	180
TATACATGGC	TTGATTGATA	TTTAGCACAG	CANAAACTGA	GTGAGTTACC	AGAAANAAAT	240
NATATATGTC	AATCNGATTT	AAGATACAAA	ACAGATCCTA	TGGTACATAN	CATCNTGTAG	300
GAGTTGTGGC	TTTATGTTTA	CTGAAAGTCA	ATGCAGTTCC	TGTACAAAGA	GATGGCCGTA	360
AGCATTCTAG	TACCTCTACT	CCATGGTTAA	GAATCGTACA	CTTATGTTTA	CATATGTNCA	420
GGGTAAGAAT	TGTGTTAAGT	NAANTTATGG	AGAGGTCCAN	GAGAAAAATT	TGATNCAA	478

#### (2) INFORMATION FOR SEQ ID NO:199:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 482 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:199:

AGTGACTTGT CCT	CCAACAA AACCCCTTG	TCAAGTTTGT	GGCACTGACA	ATCAGACCTA	60
	CATCTAT TCGCTACTA				120
	GATTATT TTGGAGCCT				180
	CCTCTAC GGATGAGAG				240
	GAACACG CTGGTTATC				300
AAATTTACCT GGA	NGAAAAG AGGCTTTNG	G CTGGGGACCA	TCCCATTGAA	CCTTCTCTTA	360
ANGGACTTTA AGA	ANAAACT ACCACATGT	1 TGTNGTATCC	TGGTGCCNGG	CCGTTTANTG	420
AACNTNGACN NCA	CCCTTNT GGAATANAN'	CTTGACNGCN	TCCTGAACTT	GCTCCTCTGC	480
GA					482

#### (2) INFORMATION FOR SEQ ID NO:200:

### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:200:

CGGCCGCAAG TGCAACTCCA GCTGGGGCCC	TGCGGACGAA	GATTCTGCCA	GCAGTTGGTC	60
CGACTGCGAC GACGGCGGCG GCGACAGTC	CAGGTGCAGC	GCGGGCGCCT	GGGGTCTTGC	120
AAGGCTGAGC TGACGCCGCA GAGGTCGTG	CACGTCCCAC	GACCTTGACG	CCGTCGGGGA	180
CAGCCGGAAC AGAGCCCGGT GAANGCGGG	GGCCTCGGGG	AGCCCCTCGG	GAAGGGCGGC	240
CCGAGAGATA CGCAGGTGCA GGTGGCCGC				270

## (2) INFORMATION FOR SEQ ID NO:201:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 419 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:201:

TTTTTTTTTT '	TTTTGGAATC	TACTGCGAGC	ACAGCAGGTC	AGCAACAAGT	TTATTTTGCA	60
GCTAGCAAGG '	TAACAGGGTA	GGGCATGGTT	ACATGTTCAG	GTCAACTTCC	TTTGTCGTGG	120
TTGATTGGTT	$TGTCTTT\Delta TG$	GGGGCGGGGT	GGGGTAGGGG	AAANCGAAGC	ANAANTAACA	180
TGGAGTGGGT	CCACCCTCCC	TGTAGAACCT	GGTTACNAAA	GCTTGGGGCA	GTTCACCTGG	240
TCTGTGACCG	TCATTTCTT	GACATCAATG	TTATTAGAAG	TCAGGATATC	TTTTAGAGAG	300
TCCACTGTNT	CTCGAGGGAG	ATTAGGGTTT	CTTGCCAANA	TCCAANCAAA	ATCCACNTGA	360
AAAAGTTGGA	TCATACANCT	ACNGAATACC	GANGGCATAN	TTCTCATANT	CGGTGGCCA	419
AAAAGIIGGA	IGAINCANGI	ACHOLLITICO				

## (2) INFORMATION FOR SEQ ID NO:202:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 509 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:202:

TTTNTTTTTT	TTTTTTTTT	TTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	60
TGGCACTTAA	TCCATTTTTA	TTTCAAAATG	TCTACAAANT	TTNAATNCNC	CATTATACNG	120
GTNATTTTNC	AAAATCTAAA	NNTTATTCAA	ATNTNAGCCA	AANTCCTTAC	NCAAATNNAA	180
TACNCNCAAA	AATCAAAAAT	ATACNTNTCT	TTCAGCAAAC	TTNGTTACAT	AAATTAAAA	240
AATATATACG	GCTGGTGTTT	TCAAAGTACA	ATTATCTTAA	CACTGCAAAC	ATNTTTNNAA	300
GGAACTAAAA	TAAAAAAAAA	CACTNCCGCA	AAGGTTAAAG	GGAACAACAA	ATTCNTTTTA	360
			AAATCTTAGG			420
GGATCTTAAC	TTTTACTNCA	CTTTGTTTAT	TTTTTTANAA	CCATTGTNTT	GGGCCCAACA	480
CAATGGNAAT	NCCNCCNCNC	TGGACTAGT				509

### (2) INFORMATION FOR SEQ ID NO:203:

### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 583 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:203:

TTTTTTTTTT	TTTTTTTGA	CCCCCTCTT	ATAAAAAACA	AGTTACCATT	TTATTTTACT	60
TACACATATT	TATTTTATAA	TTGGTATTAG	ATATTCAAAA	GGCAGCTTTT	AAAATCAAAC	120
TAAATGGAAA	CTGCCTTAGA	TACATAATTC	TTAGGAATTA	GCTTAAAATC	TGCCTAAAGT	180
GAAAATCTTC	TCTAGCTCTT	TTGACTGTAA	ATTTTTGACT	CTTGTAAAAC	ATCCAAATTC	240
ATTTTTCTTG	TCTTTAAAAT	TATCTAATCT	TTCCATTTTT	TCCCTATTCC	AAGTCAATTT	300
GCTTCTCTAG	CCTCATTTCC	TAGCTCTTAT	CTACTATTAG	TAAGTGGCTT	TTTTCCTAAA	360
AGGGAAAACA	GGAAGAGANA	ATGGCACACA	AAACAAACAT	TTTATATTCA	TATTTCTACC	420
			AGCTCAAAAG	WHOOCI INCI.		480
TCCATTTTAG	TCACTAAACG	ATATCNAAAG	TGCCAGAATG	CAAAAGGTTT	GTGAACATTT	540
ATTCAAAAGC	TAATATAAGA	TATTTCACAT	ACTCATCTTT	CTG		583

# (2) INFORMATION FOR SEQ ID NO:204:

### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 589 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:204:

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	TTTTTTTTT	TTTTTTNCTC	TTCTTTTTTT	TTGANAATGA	GGATCGAGTT	60
TTTCACTCTC	TAGATAGGGC	ATGAAGAAAA	CTCATCTTTC	CAGCTTTAAA	ATAACAATCA	120
			AAACTAATGA			180
TGAAGGAAAT	CTGTTCATTC	TTCTCATTCA	TATAGTTATA	TCAAGTACTA	CCTTGCATAT	240
TGAGAGGTTT	TTCTTCTCTA	TTTACACATA	TATTTCCATG	TGAATTTGTA	TCAAACCTTT	300
ATTTTCATGC	AAACTAGAAA	ATAATGTNTT	CTTTTGCATA	AGAGAAGAGA	ACAATATNAG	360
CATTACAAAA	CTGCTCAAAT	TGTTTGTTAA	GNTTATCCAT	TATAATTAGT	TNGGCAGGAG	420
CTAATACAAA	TCACATTTAC	NGACNAGCAA	TAATAAAACT	GAAGTACCAG	TTAAATATCC	480
AAAATAATTA	AAGGAACATT	TTTAGCCTGG	GTATAATTAG	CTAATTCACT	TTACAAGCAT	540
TTATTNAGAA	TGAATTCACA	TGTTATTATT	CCNTAGCCCA	ACACAATGG		589

### (2) INFORMATION FOR SEQ ID NO:205:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 545 base pairs(B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:205:

ተተተተተተተተተ	TTTTTTCAGT	AATAATCAGA	ACAATATTTA	TTTTTATATT	TAAAATTCAT	60
AGAAAAGTGC	CTTACATTTA	ATAAAAGTTT	GTTTCTCAAA	GTGATCAGAG	GAATTAGATA	120
TNGTCTTGAA	CACCAATATT	AATTTGAGGA	AAATACACCA	AAATACATTA	AGTAAATTAT	180
TTANCATCAT	AGAGCTTGTA	AGTGAAAAGA	TAAAATTTGA	CCTCAGAAAC	TCTGAGCATT	240
ANANTECAL	TATTAGCAAA	ΤΔΔΑΤΤΑСΤΑ	TGGACTTCTT	${\tt GCTTTAATTT}$	TGTGATGAAT	300
AMARATECAC	ACTGGTA AAC	CAACACATTC	TGAAGGATAC	ATTACTTAGT	GATAGATTCT	360
MARCHA CTTT	CCTANATNAC	GTGGATATGA	GTTGACAAGT	TTCTCTTTCT	TCAATCTTTT	420
AAGGGCCNCA	MCANATRAC	AAGAAAGAA	AAGGATTACG	CATACTGTTC	TTTCTATNGG	480
AAGGGGCNGA	TATO TO T	TTGCCAATAT	ΑΤΑΑΑΑΔΑΤΑ	ATAATGTTTA	CTACTAGTGA	540
	TAIGITICCI	TIGCCAATAT	110000000000000000000000000000000000000			545
AACCC						

- (2) INFORMATION FOR SEQ ID NO:206:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 487 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:206:

	ጥጥጥጥጥ <b>Δር</b> ጥር	AAGTTTCTNA	TTTTTATTAT	AATTAAAGTC	TTGGTCATTT	60
TITITITI	CHCHCCAACT	TACATATTTA	ΔΔΤΤΔΔΑGΑΑ	ACGTTNTTAG	ACAACTGTNA	120
CATTTATTAG	CICIGCAACI	CCATTATTGA	CTANATATAT	TCCTCCAAGA	GTGGATGTGT	180
CAATTTATAA	ATGTAAGGTG	CCATTAITGA	GIANAIAIAI	ላ ጥጥጥጥ እጥጥ እ C	ТАСАТИАТАС	240
CCCTTCTCCC	ACCAACTAAT	GAANCAGCAA	CATTAGTTIA	ATTIMITAG	TATCTCTCAC	300
ACTGCTGCAA	ACGCTAATTC	TCTTCTCCAT	CCCCATGING	ATATTGTGTA	TATGTGTGAG	360
TTGGTNAGAA	TGCATCANCA	ATCTNACAAT	CAACAGCAAG	ATGAAGCTAG	GCNTGGGCTT	
TCCCTCAAAA	TAGACTGTGT	CTGTCTGAAT	CAAATGATCT	GACCTATCCT	CGGTGGCAAG	420
A A CTCTTCGA	<b>∆</b> CCGCTTCCT	CAAAGGCNGC	TGCCACATTT	GTGGCNTCTN	TTGCACTTGT	480
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<del></del>				487
TTCAAAA						

- (2) INFORMATION FOR SEQ ID NO:207:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 332 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:207:

max xmmacam	እ እ እ እ <b>ር</b> እ ርጥርር	ΔͲͲͲͲΔΝΑΑ	CTAGCAACTC	TTATTTCTTT	CCTTTAAAAA	60
TGAATIGGCI	MAAAGAC 1GC	ለጥር/ርጥስጥጥጥስ	ANGACCTGAC	AGCTTGAGAA	GGTCACTACT	120
TACATAGCAT	TAAATCCCAA	MICCIAITIA	COMPA CNITTUTE	AANTCTGACA	ATCCTTGANA	180
GCATTTATAG	GACCTTCTGG	TGGTTCTGCT	GITACNITIO	CACACCAANA	ACACAGCGCA	240
ATCTTTGCAT	GCAGAGGAGG	TAAAAGGTAT	TGGATTTTCA	CAGAGGAANA	ACACAGCGCA	300
GAAATGAAGG	GGCCAGGCTT	ACTGAGCTTG	TCCACTGGAG	GGCTCATGGG	TGGGACATGG	300

AAAAGAAGGC AGCCTAGGCC CTGGGGAGCC CA

(2) INFORMATION FOR SEQ ID NO:208:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 524 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:208:	
AGGGCGTGGT GCGGAGGGCG TTACTGTTTT GTCTCAGTAA CAATAAATAC AAAAAGACTG GTTGTGTCC GGCCCATCC AACCACGAAG TTGATTTCTC TTGTGTGCAG AGTGACTGAT TTTAAAGGAC ATGGAGCTTG TCACAATGTC ACAATGTCAC AGTGTGAAGG TCCCGCGTGA TTCACATTTA GCAACCAACA ATAGCTCATG AGTCCATACT TGTAAATACT TTTGGCAGAA TACTTNTTGA AACTTGCAGA TGATAACTAA GATCCAAGAT ATTTCCCAAA GTAAATAGAA GTGGGTCATA ATATTAATTA CCTGTTCACA TCAGCTTCCA TTTACAAGTC ATGAGCCCAG ACACTGACAT CAAACTAAGC CCACTTAGAC TCCTCACCAC CAGTCTGTCC TGTCATCAGA CAGGAGGCTG TCACCTTGAC CAAATTCTCA CCAGTCAATC AAACCATTAC CTGATCCACT TCCGGTAATG CACCACCTTG GTGA	60 120 180 240 300 360 420 480 524
(2) INFORMATION FOR SEQ ID NO:209:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 159 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:209:	
GGGTGAGGAA ATCCAGAGTT GCCATGGAGA AAATTCCAGT GTCAGCATTC TTGCTCCTTG TGGCCCTCTC CTACACTCTG GCCAGAGATA CCACAGTCAA ACCTGGAGCC AAAAAGGACA CAAAGGACTC TCGACCCAAA CTGCCCCAGA CCCTCTCCA	60 120 159
(2) INFORMATION FOR SEQ ID NO:210:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 256 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:210:	
ACTCCCTGGC AGACAAGGC AGAGGAGAGA GCTCTGTTAG TTCTGTGTTG TTGAACTGCC ACTGAATTC TTTCCACTTG GACTATTACA TGCCANTTGA GGGACTAATG GAAAAACGTA TGGGGAGATT TTANCCAATT TANGTNTGTA AATGGGGAGA CTGGGGCAGG CGGGAGAGAT TTGCAGGGTG NAAATGGGAN GGCTGGTTTG TTANATGAAC AGGGACATAG GAGGTAGGCA CCAGGATGCT AAATCA	60 120 180 240 256

- (2) INFORMATION FOR SEQ ID NO:211:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 264 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:211:

ACATTGTTTT	TTTGAGATAA	AGCATTGAGA	GAGCTCTCCT	TAACGTGACA	CAATGGAAGG	60
ACTGGAACAC	ATACCCACAT	CTTTGTTCTG	AGGGATAATT	TTCTGATAAA	GTCTTGCTGT	120
			AGTTCCATGT			180
			GAAATACTCA			240
<del>-</del>	CAAATGAGAA					264
LT TT TT TO CT TO						

- (2) INFORMATION FOR SEQ ID NO:212:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 328 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:212:

ACCCAAAAAT	CCAATGCTGA	ATATTTGGCT	TCATTATTCC	CANATTCTTT	GATTGTCAAA	60
CCATTTAATG	TTGTCTCAGC	TTGGGCACTT	CAGTTAGGAC	CTAAGGATGC	CAGCCGGCAG	120
CTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	CCACCAACAA	TATTCAAGCG	CGACAACAGG	TTATTGAACT	TGCCCGCCAG	180
GIIIVIVIVI	TTCCCATTCA	CTTGGGATCC	TTATCATCAG	CCAGAGAGAT	TGAAAATTTA	240
CCCCTTCA	TICCCATION	CTGGANAGGG	CCAGTGGTGG	TAGCTATAAG	CTTGGCCACA	300
			CCAGIGGIGG	1110011111111		328
TTTTTTTTC	CTTATTCCT	TIGICAGA				

- (2) INFORMATION FOR SEQ ID NO:213:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 250 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:213:

ACTTATGAGC	AGAGCGACAT	ATCCNAGTGT	AGACTGAATA	AAACTGAATT	CTCTCCAGTT	60
TAAAGCATTG	CTCACTGAAG	GGATAGAAGT	GACTGCCAGG	AGGGAAAGTA	AGCCAAGGCT	120
CATTATGCCA	AAGGANATAT	ACATTTCAAT	TCTCCAAACT	TCTTCCTCAT	TCCAAGAGTT	180
TTCAATATTT	GCATGAACCT	GCTGATAANC	CATGTTAANA	AACAAATATC	TCTCTNACCT	240
TCTCATCGGT						250

- (2) INFORMATION FOR SEQ ID NO:214:
- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 444 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:214:

ACCCAGAATC CAATGCTGAA	TATTTGGCTT	CATTATTCCC	AGATTCTTTG	ATTGTCAAAG	60
GATTTAATGT TGTCTCAGCT					120
TTTATATATG CAGCAACAAT					180
TGAATTTCAT TCCCATTGAC					240
CCCTACGACT CTTTACTCTC	TGGAGAGGGC	CAGTGGTGGT	AGCTATAAGC	TTGGCCACAT	300
TTTTTTTCC TTTATTCCTT	TGTCAGAGAT	GCGATTCATC	CATATGCTAN	AAACCAACAG	360
AGTGACTTTT ACAAAATTCC	TATAGANATT	GTGAATAAAA	CCTTACCTAT	AGTTGCCATT	420
ACTITICT CCCTAATATA	CCTC				444

### (2) INFORMATION FOR SEQ ID NO:215:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 366 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:215:

ACTTATGAGC AGAGCGACAT	ATCCAAGTGT	ANACTGAATA	AAACTGAATT	CTCTCCAGTT	60
TAAAGCATTG CTCACTGAAG					120
CATTATGCCA AAGGANATAT	ACATTTCAAT	TCTCCAAACT	TCTTCCTCAT	TCCAAGAGTT	180
TTCAATATTT GCATGAACCT	GCTGATAAGC	CATGTTGAGA	AACAAATATC	TCTCTGACCT	240
TCTCATCGGT AAGCAGAGGC	TGTAGGCAAC	ATGGACCATA	GCGAANAAAA	AACTTAGTAA	300
TCCAAGCTGT TTTCTACACT	GTAACCAGGT	TTCCAACCAA	GGTGGAAATC	TCCTATACTT	360
GGTGCC					366

### (2) INFORMATION FOR SEQ ID NO:216:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 260 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:216:

CTGTATAAAC AGAACTCCAC	TGCANGAGGG	AGGGCCGGGC	CAGGAGAATC	TCCGCTTGTC	60
CAAGACAGGG GCCTAAGGAG	GGTCTCCACA	CTGCTNNTAA	GGGCTNTTNC	ATTTTTTAT	120
TAATAAAAAG TNNAAAAGGC					180
ATCAAAAATT TCCTNAAGTT					240
AATTCTTCCT TCCCTCCTTT					260

(2) INFORMATION FOR SEQ ID NO:217:

<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 262 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:217:	
ACCTACGTGG GTAAGTTTAN AAATGTTATA ATTTCAGGAA NAGGAACGCA TATAATTGTA TCTTGCCTAT AATTTCTAT TTTAATAAGG AAATAGCAAA TTGGGGTGGG GGGAATGTAG GGCATTCTAC AGTTTGAGCA AAATGCAATT AAATGTGGAA GGACAGCACT GAAAAATTTT ATGAATAATC TGTATGATTA TATGTCTCTA GAGTAGATTT ATAATTAGCC ACTTACCCTA ATATCCTTCA TGCTTGTAAA GT	60 120 180 240 262
(2) INFORMATION FOR SEQ ID NO:218:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 205 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:218:	
ACCAAGGTGG TGCATTACCG GAANTGGATC AANGACACCA TCGTGGCCAA CCCCTGAGCA CCCCTATCAA CTCCCTTTTG TAGTAAACTT GGAACCTTGG AAATGACCAG GCCAAGACTC AGGCCTCCCC AGTTCTACTG ACCTTTGTCC TTANGTNTNA NGTCCAGGGT TGCTAGGAAA ANAAATCAGC AGACACAGGT GTAAA	60 120 180 205
(2) INFORMATION FOR SEQ ID NO:219:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 114 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:219:	
TACTGTTTTG TCTCAGTAAC AATAAATACA AAAAGACTGG TTGTGTTCCG GCCCCATCCA ACCACGAAGT TGATTTCTCT TGTGTGCAGA GTGACTGATT TTAAAGGACA TGGA	60 114
(2) INFORMATION FOR SEQ ID NO:220:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 93 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:220:	
ACTAGCCAGC ACAAAAGGCA GGGTAGCCTG AATTGCTTTC TGCTCTTTAC ATTTCTTTTA AAATAAGCAT TTAGTGCTCA GTCCCTACTG AGT	60 93
(2) INFORMATION FOR SEQ ID NO:221:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 167 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:221:	
ACTANGTGCA GGTGCGCACA AATATTTGTC GATATTCCCT TCATCTTGGA TTCCATGAGG TCTTTTGCCC AGCCTGTGGC TCTACTGTAG TAAGTTTCTG CTGATGAGGA GCCAGNATGC CCCCCACTAC CTTCCCTGAC GCTCCCCANA AATCACCCAA CCTCTGT	60 120 167
(2) INFORMATION FOR SEQ ID NO:222:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 351 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:222:	
AGGGCGTGGT GCGGAGGCG GTACTGACCT CATTAGTAGG AGGATGCATT CTGGCACCCC GTTCTTCACC TGTCCCCAA TCCTTAAAAG GCCATACTGC ATAAAGTCAA CAACAGATAA ATGTTTGCTG AATTAAAGGA TGGATGAAAA AAATTAATAA TGAATTTTTG CATAATCCAA TTTTCTCTTT TATATTTCTA GAAGAAGTTT CTTTGAGCCT ATTAGATCCC GGGAATCTTT TAGGTGAGCA TGATTAGAGA GCTTGTAGGT TGCTTTTACA TATATCTGGC ATATTTGAGT CTCGTATCAA AACAATAGAT TGGTAAAGGT GGTATTATTG TATTGATAAG T	60 120 180 240 300 351
(2) INFORMATION FOR SEQ ID NO:223	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 383 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:223:	
AAAACAAACA AACAAAAAA ACAATTCTTC ATTCAGAAAA ATTATCTTAG GGACTGATAT	60
TGGTAATTAT GGTCAATTTA ATWRTRTTKT GGGGCATTTC CTTACATTGT CTTGACAAGA	120
TTAAAATGTC TGTGCCAAAA TTTTGTATTT TATTTGGAGA CTTCTTATCA AAAGTAATGC	180
TGCCAAGGA AGTCTAAGGA ATTAGTAGTG TTCCCMTCAC TTGTTTGGAG TGTGCTATTC	240
TAAAAGATTT TGATTTCCTG GAATGACAAT TATATTTTAA CTTTGGTGGG GGAAANAGTT	300
ATAGGACCAC AGTCTTCACT TCTGATACTT GTAAATTAAT CTTTTATTGC ACTTGTTTTG	360
ACCATTAGC TATATGTTTA AAA	383

### (2) INFORMATION FOR SEQ ID NO:224

### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 320 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:224

CCCCTGAAGG CT	TCTTGTTA GAAAATAGT.	A CAGTTACAAC	CAATAGGAAC	AACAAAAAGA	60
AAAAGTTTGT GA	CATTGTAG TAGGGAGTG	r gtacccctta	CTCCCCATCA	TAAAAAAAA	120
	AAAGGATA RAAGGGCAA				180
	CTTTCTCR AAATGGAAG				240
	CCATCCTC CTTTARAGT				300
TTTARACTCM GC	ATTGTGAC				320